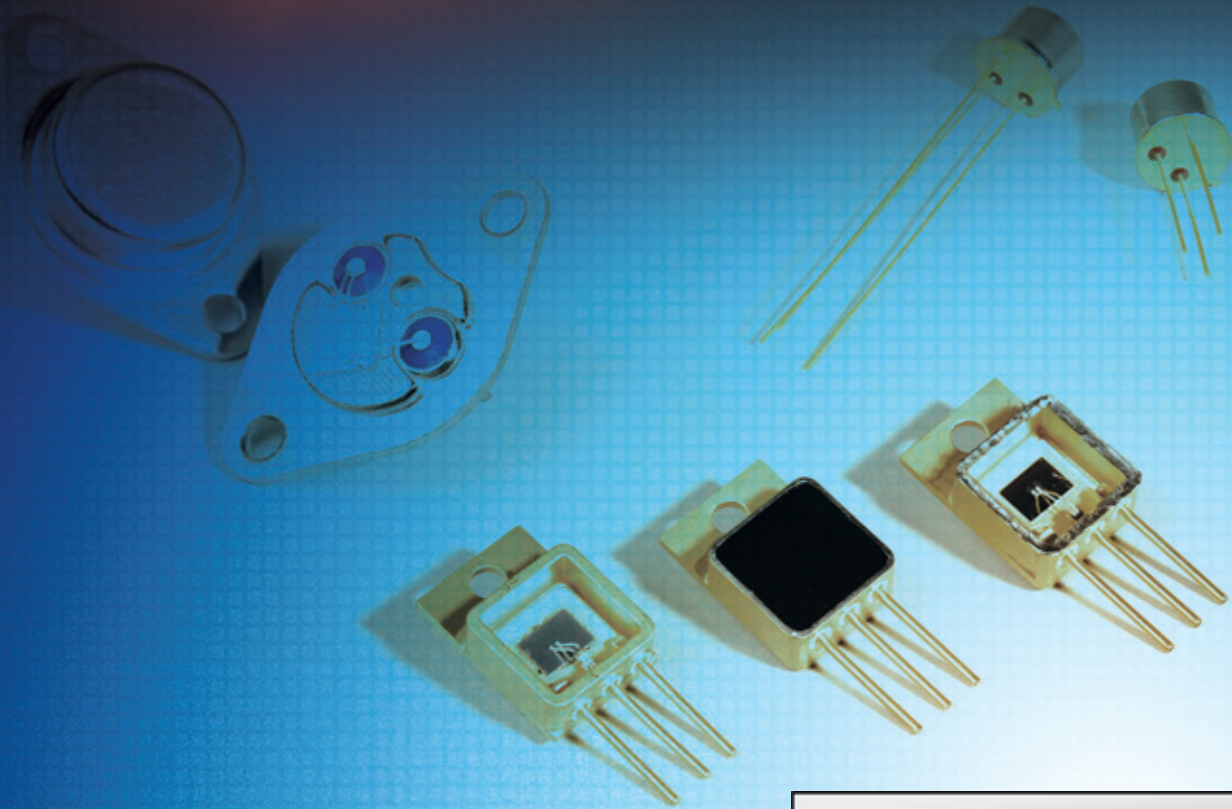




Trusted Everywhere.



SEMICOA

PRODUCT CATALOG

Trusted Everywhere.

Bipolar Transistors

We offer one of the largest selection of small signal, RF and power transistors for demanding military, space and high reliability industrial applications. All devices are hermetically sealed in metal cans or ceramic packages.

All of SEMICOA's transistors are also available in die form for hybrid circuits. SEMICOA produces both proprietary and non-proprietary lines (Qualified Manufacturing Line/Qualified Product Listing) of transistors that are sold directly to OEM's and through authorized distributors.

All of these products are DLA Land & Maritime certified, are mission critical electronic components for military and space programs specially designed and produced to perform in high temperature and radiation environments. SEMICOA supports numerous strategic aerospace, military and Hi Rel programs. Headquartered in Costa Mesa, California, SEMICOA has design, development, fabrication, assembly, and testing facilities in house. For over 43 years, SEMICOA has gained the reputation for quality, reliability and delivery.

Expertise

SEMICOA has assembled the industry's most experienced designers, engineers, production, packaging, quality control and sales people in the field of discrete power semiconductors. With the experience and knowledge of SEMICOA's team, we are YOUR technology partner. Let us help solve your product needs and solutions.

Certification & Quality

Our facility has achieved the highest U.S. government qualifications; JANS, MIL-PRF-19500, ISO 9001:2000 and AS 9100:2004 Rev C certification. SEMICOA maintains full documentation and process control including required compliance testing. Our Quality Assurance department coordinates all quality conformance inspections, and maintains lot histories for each product type.

Rad Hard MOSFETs

SEMICOA's long heritage providing radiation hardened technology and packaging allows this new product line to be used for satellite, launch vehicles and other applications where radiation could alter the performance of the device. Leveraging its leadership in the high-reliability arena, SEMICOA is providing customers an alternative source for radiation hardened power MOSFETs.

The new SEMICOA MOSFET Rad Hard roadmap provides products from 30 to 600 volts and radiation levels starting at 100 krad in various hermetic packages.

SEMICOA Rad Hard MOSFET line provides:

- A guarantee to meet Defense Logistics Agency (DLA) slash sheet specifications
- TID and SEE testing
- TO-205, TO-254, TO-257 through-hole and SMD-2, SMD-0.5 and UB surface mount packaging

SEMICOA goes above and beyond the requirements of MIL-PRF-19500 for qualifying semiconductors for Radiation Hardness Assurance (RHA). SEMICOA qualifies devices more in line with typical Military and Space Program requirements. For most parts we test a sample size of 11 devices per wafer, for larger die it is 5 per wafer, and we must meet not only the Group D end points but also the deltas between the Group A and Group D, as this is how much the part can shift just due to the effects of radiation. Also, we must meet these requirements with a level of statistical assurance to be considered RHA material. SEMICOA bases acceptance using a 0.99/90% statistical calculation; which means 99% of our RHA product with 90% confidence will meet these stringent requirements. This is the level of assurance you get when you purchase our RHA products and you get the data to back it up.

Military | Aerospace MOSFETs

Leveraging its leadership in the high-reliability arena, SEMICOA is addressing customers' performance and supply requirements with its first wave of power MOSFETs for military and aerospace applications. Through an aggressive product development roadmap and collaboration with customers, SEMICOA MOSFETs address a wide range of 30-600 volt JAN, JANTX, JANTXV and JANS applications.

SEMICOA MOSFETs build on proven gate architecture, providing:

- Low figure of merit [RDS(ON) X Qg]
- Guaranteed to meet Defense Logistics Agency (DLA) slash sheet specifications
- TO-254 and TO-205 hermetic packaging

Commercial MOSFETs

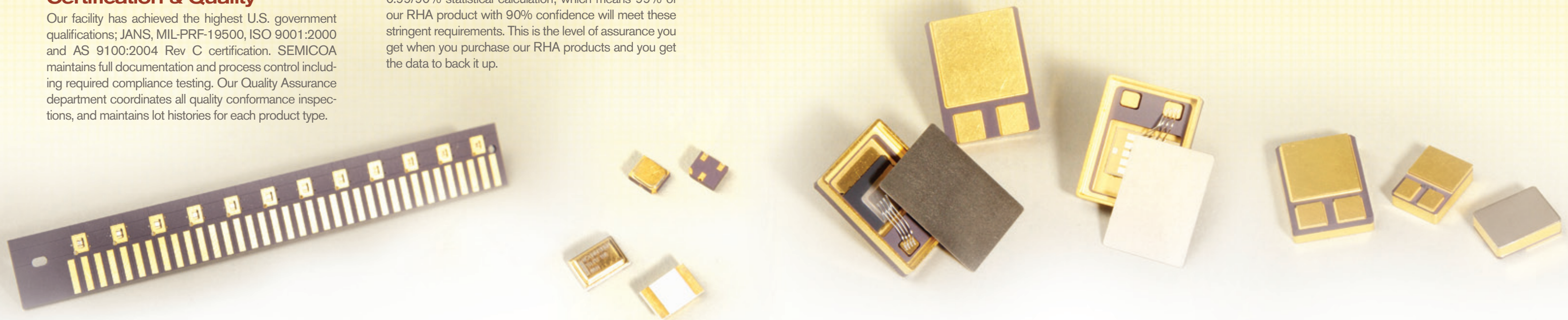
SEMICOA is a leading supplier of high-reliability discrete components for military and aerospace customers worldwide. Today, the company is building on its decades of delivering high-reliability, technology development with the introduction of a new wave of P-Channel and N-Channel Power MOSFETs for commercial applications.

Our new high reliability, discrete semiconductors offer distinct benefits to commercial and industrial customers concerned about achieving optimal power management, design robustness and long-term reliability.

Specifically, SEMICOA's proprietary gate architecture assures low leakage current, very low gate charge, ease of paralleling and fast switching times. These key features support the demanding requirements of Commercial-Industrial markets such as Energy Conversion, DC-DC & AC-DC Power Supplies, Motor Control, NetCom, Push-Pull Amplifiers and Lighting.

SEMICOA Power MOSFETs are provided in industry-standard commercial packages such as:

- TO-220
- TO-247
- TO-251
- TO-252
- TO-263
- TO-264
- TO-267
- QFN
- Power SOIC
- DPAK
- D²PAK



Bipolar Transistors

PART NUMBER	QPL PART NUMBER	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N720A	JAN2N720A	182	30 X 30	-	TO-18	NPN
	JANTX2N720A	182	30 X 30	-	TO-18	NPN
	JANTXV2N720A	182	30 X 30	-	TO-18	NPN
2N918	JAN2N918	301	16 X 16	HC / KC	TO-72 / UB	NPN
	JANTX2N918	301	16 X 16	HC / KC	TO-72 / UB	NPN
	JANTXV2N918	301	16 X 16	HC / KC	TO-72 / UB	NPN
	JANS2N918	301	16 X 16	HC / KC	TO-72 / UB	NPN
	JANSR2N918	301	16 X 16	HC / KC	TO-72 / UB	NPN
	JANSF2N918	301	16 X 16	HC / KC	TO-72 / UB	NPN
2N930	JAN2N930	253	18 X 18	-	TO-18	NPN
	JANTX2N930	253	18 X 18	-	TO-18	NPN
	JANTXV2N930	253	18 X 18	-	TO-18	NPN
2N1893	JAN2N1893	182	30 X 30	-	TO-5	NPN
	JANTX2N1893	182	30 X 30	-	TO-5	NPN
	JANTXV2N1893	182	30 X 30	-	TO-5	NPN
2N1893S	JAN2N1893S	182	30 X 30	-	TO-39	NPN
	JANTX2N1893S	182	30 X 30	-	TO-39	NPN
	JANTXV2N1893S	182	30 X 30	-	TO-39	NPN
2N2060	JAN2N2060	270	20 X 20	-	TO-78	NPN
	JANTX2N2060	270	20 X 20	-	TO-78	NPN
	JANTXV2N2060	270	20 X 20	-	TO-78	NPN
2N2218	JAN2N2218	251	20 X 20	-	TO-39	NPN
	JANTX2N2218	251	20 X 20	-	TO-39	NPN
	JANTXV2N2218	251	20 X 20	-	TO-39	NPN
2N2218A	JAN2N2218A	251	20 X 20	-	TO-39	NPN
	JANTX2N2218A	251	20 X 20	-	TO-39	NPN
	JANTXV2N2218A	251	20 X 20	-	TO-39	NPN
2N2218AL	JAN2N2218AL	251	20 X 20	-	TO-5	NPN
	JANTX2N2218AL	251	20 X 20	-	TO-5	NPN
	JANTXV2N2218AL	251	20 X 20	-	TO-5	NPN
2N2219	JAN2N2219	251	20 X 20	-	TO-39	NPN
	JANTX2N2219	251	20 X 20	-	TO-39	NPN
	JANTXV2N2219	251	20 X 20	-	TO-39	NPN
	JANS2N2219	251	20 X 20	-	TO-39	NPN
	JANSR2N2219	251	20 X 20	-	TO-39	NPN
2N2219A	JAN2N2219A	251	20 X 20	-	TO-39	NPN
	JANTX2N2219A	251	20 X 20	-	TO-39	NPN
	JANTXV2N2219A	251	20 X 20	-	TO-39	NPN
	JANS2N2219A	251	20 X 20	-	TO-39	NPN
	JANSR2N2219A	251	20 X 20	-	TO-39	NPN
	JAN2N2219AL	251	20 X 20	-	TO-5	NPN
2N2219AL	JANTX2N2219AL	251	20 X 20	-	TO-5	NPN
	JANTXV2219AL	251	20 X 20	-	TO-5	NPN
	JANS2N2219AL	251	20 X 20	-	TO-5	NPN
	JANSR2N2219AL	251	20 X 20	-	TO-5	NPN

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
-	80	120	7	0.5	0.5	325	-65 to +200	120	5
-	80	120	7	0.5	0.5	325	-65 to +200	120	5
-	80	120	7	0.5	0.5	325	-65 to +200	120	5
-	15	30	3	0.05	0.2	400	-65 to +200	200	0.4
-	15	30	3	0.05	0.2	400	-65 to +200	200	0.4
-	15	30	3	0.05	0.2	400	-65 to +200	200	0.4
-	15	30	3	0.05	0.2	400	-65 to +200	200	0.4
100 krad	15	30	3	0.05	0.2	400	-65 to +200	200	0.4
300 krad	15	30	3	0.05	0.2	400	-65 to +200	200	0.4
-	45	60	6	0.03	0.36	485	-65 to +200	600	1
-	45	60	6	0.03	0.36	485	-65 to +200	600	1
-	45	60	6	0.03	0.36	485	-65 to +200	600	1
-	80	120	7	0.5	0.8	175	-65 to +200	120	5
-	80	120	7	0.5	0.8	175	-65 to +200	120	5
-	80	120	7	0.5	0.8	175	-65 to +200	120	5
-	80	120	7	0.5	0.8	175	-65 to +200	120	5
-	80	120	7	0.5	0.8	175	-65 to +200	120	5
-	60	100	7	0.5	0.6	325	-65 to +200	150	0.3
-	60	100	7	0.5	0.6	325	-65 to +200	150	0.3
-	60	100	7	0.5	0.6	325	-65 to +200	150	0.3
-	60	100	7	0.5	0.6	325	-65 to +200	150	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	150	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	150	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	150	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	150	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	150	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	150	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	150	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	150	0.3
-	30	60	5	0.8	0.8	195	-65 to +200	325	0.4
-	30	60	5	0.8	0.8	195	-65 to +200	325	0.4
-	30	60	5	0.8	0.8	195	-65 to +200	325	0.4
-	30	60	5	0.8	0.8	195	-65 to +200	325	0.4
100 krad	30	60	5	0.8	0.8	195	-65 to +200	325	0.4
-	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
100 krad	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
-	50	75	6	0.8	0.8	195	-65 to +200	325	0.3
100 krad	50	75	6	0.8	0.8	195	-65 to +200	325	0.3

Bipolar Transistors

PART NUMBER	QPL PART NUMBER	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N2222A	JAN2N2222A	255	20 X 20	-	TO-18 / UB / UBC / UA	NPN
	JANTX2N2222A	255	20 X 20	-	TO-18 / UB / UBC / UA	NPN
	JANTXV2N2222A	255	20 X 20	-	TO-18 / UB / UBC / UA	NPN
	JANS2N2222A	255	20 X 20	-	TO-18 / UB / UBC / UA	NPN
	JANSR2N2222A	255	20 X 20	-	TO-18 / UB / UBC / UA	NPN
2N2369A	JAN2N2369A	317	16 X 16	HC / KC / KCR / KCF	TO-18 / UB / UBC	NPN
	JANTX2N2369A	317	16 X 16	HC / KC / KCR / KCF	TO-18 / UB / UBC	NPN
	JANTXV2N2369A	317	16 X 16	HC / KC / KCR / KCF	TO-18 / UB / UBC	NPN
	JANS2N2369A	317	16 X 16	HC / KC / KCR / KCF	TO-18 / UB / UBC	NPN
	JANSR2N2369A	317	16 X 16	HC / KC / KCR / KCF	TO-18 / UB / UBC	NPN
	JANSF2N2369A	317	16 X 16	HC / KC / KCR / KCF	TO-18 / UB / UBC	NPN
2N2484	JAN2N2484	376	18 X 18	HC / KC	TO-18 / UB / UBC	NPN
	JANTX2N2484	376	18 X 18	HC / KC	TO-18 / UB / UBC	NPN
	JANTXV2N2484	376	18 X 18	HC / KC	TO-18 / UB / UBC	NPN
	JANS2N2484	376	18 X 18	HC / KC	TO-18 / UB / UBC	NPN
2N2605	JAN2N2605	354	18 X 18	-	TO-46	PNP
	JANTX2N2605	354	18 X 18	-	TO-46	PNP
	JANTXV2N2605	354	18 X 18	-	TO-46	PNP
2N2857	JAN2N2857	343	16 X 16	HC / KC / KCR / KCF	TO-72 / UB	NPN
	JANTX2N2857	343	16 X 16	HC / KC / KCR / KCF	TO-72 / UB	NPN
	JANTXV2N2857	343	16 X 16	HC / KC / KCR / KCF	TO-72 / UB	NPN
	JANS2N2857	343	16 X 16	HC / KC / KCR / KCF	TO-72 / UB	NPN
	JANSR2N2857	343	16 X 16	HC / KC / KCR / KCF	TO-72 / UB	NPN
	JANSF2N2857	343	16 X 16	HC / KC / KCR / KCF	TO-72 / UB	NPN
2N2904	JAN2N2904	290	20 X 20	-	TO-39	PNP
	JANTX2N2904	290	20 X 20	-	TO-39	PNP
	JANTXV2N2904	290	20 X 20	-	TO-39	PNP
2N2904A	JAN2N2904A	290	20 X 20	-	TO-39	PNP
	JANTX2N2904A	290	20 X 20	-	TO-39	PNP
	JANTXV2N2904A	290	20 X 20	-	TO-39	PNP
2N2904AL	JAN2N2904AL	290	20 X 20	-	TO-5	PNP
	JANTX2N2904AL	290	20 X 20	-	TO-5	PNP
	JANTXV2N2904AL	290	20 X 20	-	TO-5	PNP
2N2905	JAN2N2905	290	20 X 20	-	TO-39	PNP
	JANTX2N2905	290	20 X 20	-	TO-39	PNP
	JANTXV2N2905	290	20 X 20	-	TO-39	PNP
	JANS2N2905	290	20 X 20	-	TO-39	PNP
2N2905A	JAN2N2905A	290	20 X 20	-	TO-39	PNP
	JANTX2N2905A	290	20 X 20	-	TO-39	PNP
	JANTXV2N2905A	290	20 X 20	-	TO-39	PNP
	JANS2N2905A	290	20 X 20	-	TO-39	PNP
	JANSR2N2905A	290	20 X 20	-	TO-39	PNP
	JANSF2N2905A	290	20 X 20	-	TO-39	PNP
2N2905AL	JAN2N2905AL	290	20 X 20	-	TO-5	PNP
	JANTX2N2905AL	290	20 X 20	-	TO-5	PNP
	JANTXV2N2905AL	290	20 X 20	-	TO-5	PNP
	JANS2N2905AL	290	20 X 20	-	TO-5	PNP
	JANSR2N2905AL	290	20 X 20	-	TO-5	PNP
	JANSF2N2905AL	290	20 X 20	-	TO-5	PNP

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
-	50	75	6	0.8	0.5	325	-65 to +200	325	0.3
-	50	75	6	0.8	0.5	325	-65 to +200	325	0.3
-	50	75	6	0.8	0.5	325	-65 to +200	325	0.3
-	50	75	6	0.8	0.5	325	-65 to +200	325	0.3
100 krad	50	75	6	0.8	0.5	325	-65 to +200	325	0.3
-	15	40	4.5	0.1	0.36	400	-65 to +200	120	0.2
-	15	40	4.5	0.1	0.36	400	-65 to +200	120	0.2
-	15	40	4.5	0.1	0.36	400	-65 to +200	120	0.2
-	15	40	4.5	0.1	0.36	400	-65 to +200	120	0.2
100 krad	15	40	4.5	0.1	0.36	400	-65 to +200	120	0.2
300 krad	15	40	4.5	0.1	0.36	400	-65 to +200	120	0.2
-	60	60	6	0.05	0.36	325	-65 to +200	800	0.3
-	60	60	6	0.05	0.36	325	-65 to +200	800	0.3
-	60	60	6	0.05	0.36	325	-65 to +200	800	0.3
-	60	60	6	0.05	0.36	325	-65 to +200	800	0.3
-	60	70	6	0.03	0.4	437	-65 to +200	450	0.3
-	60	70	6	0.03	0.4	437	-65 to +200	450	0.3
-	60	70	6	0.03	0.4	437	-65 to +200	450	0.3
-	15	30	3	0.04	0.2	400	-65 to +200	150	0.4
-	15	30	3	0.04	0.2	400	-65 to +200	150	0.4
-	15	30	3	0.04	0.2	400	-65 to +200	150	0.4
-	15	30	3	0.04	0.2	400	-65 to +200	150	0.4
100 krad	15	30	3	0.04	0.2	400	-65 to +200	150	0.4
300 krad	15	30	3	0.04	0.2	400	-65 to +200	150	0.4
-	40	60	5	0.6	0.8	195	-65 to +200	175	0.4
-	40	60	5	0.6	0.8	195	-65 to +200	175	0.4
-	40	60	5	0.6	0.8	195	-65 to +200	175	0.4
-	40	60	5	0.6	0.8	195	-65 to +200	175	0.4
-	40	60	5	0.6	0.8	195	-65 to +200	175	0.4
-	40	60	5	0.6	0.8	195	-65 to +200	175	0.4
-	40	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	40	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	40	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	40	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	40	60	5	0.06	0.08	195	-65 to +200	450	0.4
100 krad	40	60	5	0.06	0.08	195	-65 to +200	450	0.4
300 krad	40	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	40	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	60	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	60	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	60	60	5	0.06	0.08	195	-65 to +200	450	0.4
-	60	60	5	0.06	0.08	195	-65 to +200	450	0.4
100 krad	60	60	5	0.06	0.08	195	-65 to +200	450	0.4
300 krad	60	60	5	0.06	0.08	195	-65 to +200	450	0.4

Bipolar Transistors

PART NUMBER	QPL PART NUMBER	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N2906A	JAN2N2906A	291	20 X 20	HC / KC / KCR / KCF	TO-18 / UB / UBC	PNP
	JANTX2N2906A	291	20 X 20	HC / KC / KCR / KCF	TO-18 / UB / UBC	PNP
	JANTXV2N2906A	291	20 X 20	HC / KC / KCR / KCF	TO-18 / UB / UBC	PNP
	JANS2N2906A	291	20 X 20	HC / KC / KCR / KCF	TO-18 / UB / UBC	PNP
	JANSR2N2906A	291	20 X 20	HC / KC / KCR / KCF	TO-18 / UB / UBC	PNP
	JANSF2N2906A	291	20 X 20	HC / KC / KCR / KCF	TO-18 / UB / UBC	PNP
2N2906AL	JANSF2905AL	291	20 X 20	-	TO-5	PNP
	JANTX2N2906AL	291	20 X 20	-	TO-5	PNP
	JANTXV2N2906AL	291	20 X 20	-	TO-5	PNP
	JANS2N2906AL	291	20 X 20	-	TO-5	PNP
	JANSR2N2906AL	291	20 X 20	-	TO-5	PNP
	JANSF2N2906AL	291	20 X 20	-	TO-5	PNP
2N2907A	JAN2N2907A	291	20 X 20	HC / KC / KCR / KCF	TO-18	PNP
	JANTX2N2907A	291	20 X 20	HC / KC / KCR / KCF	TO-18	PNP
	JANTXV2N2907A	291	20 X 20	HC / KC / KCR / KCF	TO-18	PNP
	JANS2N2907A	291	20 X 20	HC / KC / KCR / KCF	TO-18	PNP
	JANSR2N2907A	291	20 X 20	HC / KC / KCR / KCF	TO-18	PNP
	JANSF2N2907A	291	20 X 20	HC / KC / KCR / KCF	TO-18	PNP
2N2907AL	JAN2N2907AL	291	20 X 20	-	TO-5	PNP
	JANTX2N2907AL	291	20 X 20	-	TO-5	PNP
	JANTXV2N2907AL	291	20 X 20	-	TO-5	PNP
	JANS2N2907AL	291	20 X 20	-	TO-5	PNP
	JANSR2N2907AL	291	20 X 20	-	TO-5	PNP
	JANSF2N2907AL	291	20 X 20	-	TO-5	PNP
2N2946A	JAN2N2946A	382	20 X 20	HC / KC / KCR	TO-46	PNP
	JANTX2N2946A	382	20 X 20	HC / KC / KCR	TO-46	PNP
	JANTXV2N2946A	382	20 X 20	HC / KC / KCR	TO-46	PNP
	JANS2N2946A	382	20 X 20	HC / KC / KCR	TO-46	PNP
	JANSR2N2946A	382	20 X 20	HC / KC / KCR	TO-46	PNP
2N3019	JAN2N3019	391	30 X 30	HC / KC / KCR	TO-5	NPN
	JANTX2N3019	391	30 X 30	HC / KC / KCR	TO-5	NPN
	JANTXV2N3019	391	30 X 30	HC / KC / KCR	TO-5	NPN
	JANS2N3019	391	30 X 30	HC / KC / KCR	TO-5	NPN
	JANSR2N3019	391	30 X 30	HC / KC / KCR	TO-5	NPN
2N3019S	JAN2N3019S	291	30 X 30	-	TO-39	NPN
	JANTX2N3019S	291	30 X 30	-	TO-39	NPN
	JANTXV2N3019S	291	30 X 30	-	TO-39	NPN
	JANS2N3019S	291	30 X 30	-	TO-39	NPN
	JANSR2N3019S	291	30 X 30	-	TO-39	NPN
2N3057A	JAN2N3057A	391	30 X 30	HC / KC	TO-46	NPN
	JANTX2N3057A	391	30 X 30	HC / KC	TO-46	NPN
	JANTXV2N3057A	391	30 X 30	HC / KC	TO-46	NPN
	JANS2N3057A	391	30 X 30	HC / KC	TO-46	NPN
	JANSR2N3057A	391	30 X 30	HC / KC	TO-46	NPN
2N3227	JAN2N3227	317	16 X 16	HC / KC	TO-18 / UB	NPN
	JANTX2N3227	317	16 X 16	HC / KC	TO-18 / UB	NPN
	JANTXV2N3227	317	16 X 16	HC / KC	TO-18 / UB	NPN
	JANS2N3227	317	16 X 16	HC / KC	TO-18 / UB	NPN

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
100 krad	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
300 krad	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
100 krad	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
300 krad	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
100 krad	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
300 krad	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
100 krad	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
300 krad	60	60	5	0.6	0.5	325	-65 to +200	175	0.4
-	-35	-40	-40	0.1	0.4	435	-65 to +200	50	0.5
-	-35	-40	-40	0.1	0.4	435	-65 to +200	50	0.5
-	-35	-40	-40	0.1	0.4	435	-65 to +200	50	0.5
-	-35	-40	-40	0.1	0.4	435	-65 to +200	50	0.5
100 krad	-35	-40	-40	0.1	0.4	435	-65 to +200	50	0.5
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
100 krad	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
100 krad	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	80	140	7	1	0.8	175	-65 to +200	300	0.2
100 krad	80	140	7	1	0.8	175	-65 to +200	300	0.2
-	15	40	4.5	0.1	0.36	400	-65 to +200	300	0.2
-	15	40	4.5	0.1	0.36	400	-65 to +200	300	0.2
-	15	40	4.5	0.1	0.36	400	-65 to +200	300	0.2
-	15	40	4.5	0.1	0.36	400	-65 to +200	300	0.2

Bipolar Transistors

PART NUMBER	QPL PART NUMBER	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N3485A	JAN2N3485A	392	20 X 20	-	TO-46	PNP
	JANTX2N3485A	392	20 X 20	-	TO-46	PNP
	JANTXV2N3485A	392	20 X 20	-	TO-46	PNP
2N3486A	JAN2N3486A	392	20 X 20	-	TO-46	PNP
	JANTX2N3486A	392	20 X 20	-	TO-46	PNP
	JANTXV2N3486A	392	20 X 20	-	TO-46	PNP
2N3498	JAN2N3498	366	30 X 30	-	TO-5	NPN
	JANTX2N3498	366	30 X 30	-	TO-5	NPN
	JANTXV2N3498	366	30 X 30	-	TO-5	NPN
2N3498L	JAN2N3498L	366	30 X 30	-	TO-5	NPN
	JANTX2N3498L	366	30 X 30	-	TO-5	NPN
	JANTXV2N3498L	366	30 X 30	-	TO-5	NPN
2N3499	JAN2N3499	366	30 X 30	-	TO-39	NPN
	JANTX2N3499	366	30 X 30	-	TO-39	NPN
	JANTXV2N3499	366	30 X 30	-	TO-39	NPN
2N3499L	JAN2N3499L	366	30 X 30	-	TO-39	NPN
	JANTX2N3499L	366	30 X 30	-	TO-39	NPN
	JANTXV2N3499L	366	30 X 30	-	TO-39	NPN
2N3500	JAN2N3500	366	30 X 30	-	TO-39	NPN
	JANTX2N3500	366	30 X 30	-	TO-39	NPN
	JANTXV2N3500	366	30 X 30	-	TO-39	NPN
2N3500L	JAN2N3500L	366	30 X 30	-	TO-5	NPN
	JANTX2N3500L	366	30 X 30	-	TO-5	NPN
	JANTXV2N3500L	366	30 X 30	-	TO-5	NPN
2N3501	JAN2N3501	366	30 X 30	HC / KC	TO-39 / UB	NPN
	JANTX2N3501	366	30 X 30	HC / KC	TO-39 / UB	NPN
	JANTXV2N3501	366	30 X 30	HC / KC	TO-39 / UB	NPN
	JANS2N3501	366	30 X 30	HC / KC	TO-39 / UB	NPN
2N3501L	JAN2N3501L	366	30 X 30	-	TO-5	NPN
	JANTX2N3501L	366	30 X 30	-	TO-5	NPN
	JANTXV2N3501L	366	30 X 30	-	TO-5	NPN
	JANS2N3501L	366	30 X 30	-	TO-5	NPN
2N3506	JAN2N3506	349	60 X 60	-	TO-39	NPN
	JANTX2N3506	349	60 X 60	-	TO-39	NPN
	JANTXV2N3506	349	60 X 60	-	TO-39	NPN
	JANS2N3506	349	60 X 60	-	TO-39	NPN
2N3506L	JANS2N3506L	349	60 X 60	-	TO-39	NPN
	JANTX2N3506L	349	60 X 60	-	TO-39	NPN
	JANTXV2N3506L	349	60 X 60	-	TO-39	NPN
	JANS2N3506L	349	60 X 60	-	TO-39	NPN
3N3506A	JAN2N3506A	349	60 X 60	-	TO-39	NPN
	JANTX2N3506A	349	60 X 60	-	TO-39	NPN
	JANTXV3506A	349	60 X 60	-	TO-39	NPN
	JANS2N3506A	349	60 X 60	-	TO-39	NPN
2N3506AL	JAN2N3506AL	349	60 X 60	-	TO-5	NPN
	JANTX2N3506AL	349	60 X 60	-	TO-5	NPN
	JANTXV2N3506AL	349	60 X 60	-	TO-5	NPN
	JANS2N3506AL	349	60 X 60	-	TO-5	NPN

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
-	60	60	5	0.6	0.5	325	-65 to +200	120	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	120	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	120	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	300	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	300	0.4
-	60	60	5	0.6	0.5	325	-65 to +200	300	0.4
-	100	100	6	0.5	1	175	-65 to +200	120	0.2
-	100	100	6	0.5	1	175	-65 to +200	120	0.2
-	100	100	6	0.5	1	175	-65 to +200	120	0.2
-	100	100	6	0.5	1	175	-65 to +200	120	0.2
-	100	100	6	0.5	1	175	-65 to +200	120	0.2
-	100	100	6	0.5	1	175	-65 to +200	300	0.2
-	100	100	6	0.5	1	175	-65 to +200	300	0.2
-	100	100	6	0.5	1	175	-65 to +200	300	0.2
-	100	100	6	0.5	1	175	-65 to +200	300	0.2
-	100	100	6	0.5	1	175	-65 to +200	300	0.2
-	150	150	6	0.3	1	175	-65 to +200	120	0.2
-	150	150	6	0.3	1	175	-65 to +200	120	0.2
-	150	150	6	0.3	1	175	-65 to +200	120	0.2
-	150	150	6	0.3	1	175	-65 to +200	120	0.2
-	150	150	6	0.3	1	175	-65 to +200	120	0.2
-	150	150	6	0.3	1	175	-65 to +200	120	0.2
-	150	150	6	0.3	1	175	-65 to +200	300	0.2
-	150	150	6	0.3	1	175	-65 to +200	300	0.2
-	150	150	6	0.3	1	175	-65 to +200	300	0.2
-	150	150	6	0.3	1	175	-65 to +200	300	0.2
-	150	150	6	0.3	1	175	-65 to +200	300	0.2
-	150	150	6	0.3	1	175	-65 to +200	300	0.2
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1
-	40	60	5	3	1	175	-65 to +200	250	1

Bipolar Transistors

PART NUMBER	QPL PART NUMBER	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N3810U	JAN2N3810U	366	18 X 18	-	6LCC	NPN
	JANTX2N3810U	366	18 X 18	-	6LCC	NPN
	JANTXV2N3810U	366	18 X 18	-	6LCC	NPN
	JANS2N3810U	366	18 X 18	-	6LCC	NPN
2N3811	JAN2N3811	366	18 X 18	-	TO-78	PNP
	JANTX2N3811	366	18 X 18	-	TO-78	PNP
	JANTXV2N3811	366	18 X 18	-	TO-78	PNP
	JANS2N3811	366	18 X 18	-	TO-78	PNP
2N3811L	JAN2N3811L	366	18 X 18	-	TO-78	PNP
	JANTX2N3811L	366	18 X 18	-	TO-78	PNP
	JANTXV2N3811L	366	18 X 18	-	TO-78	PNP
	JANS2N3811L	366	18 X 18	-	TO-78	PNP
2N3811U	JAN2N3811U	366	18 X 18	-	6LCC	PNP
	JANTX2N3811U	366	18 X 18	-	6LCC	PNP
	JANTXV2N3811U	366	18 X 18	-	6LCC	PNP
2N3866	JAN2N3866	398	16 X 20	-	TO-39 / UB	NPN
	JANTX2N3866	398	16 X 20	-	TO-39 / UB	NPN
	JANTXV2N3866	398	16 X 20	-	TO-39 / UB	NPN
	JANS2N3866	398	16 X 20	-	TO-39 / UB	NPN
	JANSR2N3866	398	16 X 20	-	TO-39 / UB	NPN
	JANSF2N3866	398	16 X 20	-	TO-39 / UB	NPN
2N3866A	JAN2N3866A	398	16 X 20	-	TO-39 / UB	NPN
	JANTX2N3866A	398	16 X 20	-	TO-39 / UB	NPN
	JANTXV2N3866A	398	16 X 20	-	TO-39 / UB	NPN
	JANS2N3866A	398	16 X 20	-	TO-39 / UB	NPN
	JANSR2N3866A	398	16 X 20	-	TO-39 / UB	NPN
	JANSF2N3866A	398	16 X 20	-	TO-39 / UB	NPN
2N3960	JAN2N3960	399	16 X 16	-	TO-18 / UB	NPN
	JANTX2N3960	399	16 X 16	-	TO-18 / UB	NPN
	JANTXV2N3960	399	16 X 16	-	TO-18 / UB	NPN
2N3996	JAN2N3996	374	100 X 100	-	TO-59	NPN
	JANTX2N3996	374	100 X 100	-	TO-59	NPN
	JANTXV2N3996	374	100 X 100	-	TO-59	NPN
2N3997	JAN2N3997	374	100 X 100	-	TO-59	NPN
	JANTX2N3997	374	100 X 100	-	TO-59	NPN
	JANTXV2N3997	374	100 X 100	-	TO-59	NPN
2N3998	JAN2N3998	374	100 X 100	-	TO-59	NPN
	JANTX2N3998	374	100 X 100	-	TO-59	NPN
	JANTXV2N3998	374	100 X 100	-	TO-59	NPN
2N3999	JAN2N3999	374	100 X 100	-	TO-59	NPN
	JANTX2N3999	374	100 X 100	-	TO-59	NPN
	JANTXV2N3999	374	100 X 100	-	TO-59	NPN
2N4029	JAN2N4029	512	30 X 30	-	TO-18 / UB	PNP
	JANTX2N4029	512	30 X 30	-	TO-18 / UB	PNP
	JANTXV2N4029	512	30 X 30	-	TO-18 / UB	PNP
	JANS2N4029	512	30 X 30	-	TO-18 / UB	PNP
	JANSR2N4029	512	30 X 30	-	TO-18 / UB	PNP

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
-	60	60	5	0.05	0.6	500	-65 to +200	450	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	450	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	450	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	450	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	60	60	5	0.05	0.6	500	-65 to +200	900	0.2
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
100 krad	30	60	3.5	0.4	1	175	-65 to +200	200	1
300 krad	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	30	60	3.5	0.4	1	175	-65 to +200	200	1
100 krad	30	60	3.5	0.4	1	175	-65 to +200	200	1
300 krad	30	60	3.5	0.4	1	175	-65 to +200	200	1
-	12	20	4.5	0.05	0.4	400	-65 to +200	300	0.2
-	12	20	4.5	0.05	0.4	400	-65 to +200	300	0.2
-	12	20	4.5	0.05	0.4	400	-65 to +200	300	0.2
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	100	8	5	2	87	-65 to +200	240	0.25
-	80	100	8	5	2	87	-65 to +200	240	0.25
-	80	100	8	5	2	87	-65 to +200	240	0.25
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	100	8	5	2	87	-65 to +200	120	0.25
-	80	80	5	1	0.5	325	-65 to +200	300	0.15
-	80	80	5	1	0.5	325	-65 to +200	300	0.15
-	80	80	5	1	0.5	325	-65 to +200	300	0.15
-	80	80	5	1	0.5	325	-65 to +200	300	0.15
100 krad	80	80	5	1	0.5	325	-65 to +200	300	0.15

Bipolar Transistors

PART NUMBER	QPL PART NUMBER	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N4033	JAN2N4033	512	30 X 30	HC / KC / KCR	TO-39 / UB	PNP
	JANTX2N4033	512	30 X 30	HC / KC / KCR	TO-39 / UB	PNP
	JANTXV2N4033	512	30 X 30	HC / KC / KCR	TO-39 / UB	PNP
	JANS2N4033	512	30 X 30	HC / KC / KCR	TO-39 / UB	PNP
	JANSR2N4033	512	30 X 30	HC / KC / KCR	TO-39 / UB	PNP
2N4150	JAN2N4150	394	155 X 155	-	TO-59	NPN
	JANTX2N4150	394	155 X 155	-	TO-59	NPN
	JANTXV2N4150	394	155 X 155	-	TO-59	NPN
2N4150S	JAN2N4150S	394	155 X 155	-	TO-39	NPN
	JANTX2N4150S	394	155 X 155	-	TO-39	NPN
	JANTXV2N4150S	394	155 X 155	-	TO-39	NPN
2N4261	JAN2N4261	511	16 X 16	-	TO-72 / UB / UBC	PNP
	JANTX2N4261	511	16 X 16	-	TO-72 / UB / UBC	PNP
	JANTXV2N4261	511	16 X 16	-	TO-72 / UB / UBC	PNP
	JANS2N4261	511	16 X 16	-	TO-72 / UB / UBC	PNP
	JANSR2N4261	511	16 X 16	-	TO-72 / UB / UBC	PNP
	JANSF2N4261	511	16 X 16	-	TO-72 / UB / UBC	PNP
2N4449	JAN2N4449	317	16 X 16	-	TO-46	NPN
	JANTX2N4449	317	16 X 16	-	TO-46	NPN
	JANTXV2N4449	317	16 X 16	-	TO-46	NPN
	JANS2N4449	317	16 X 16	-	TO-46	NPN
	JANSR2N4449	317	16 X 16	-	TO-46	NPN
	JANSF2N4449	317	16 X 16	-	TO-46	NPN
2N4957	JAN2N4957	426	16 X 16	-	TO-72 / UB	PNP
	JANTX2N4957	426	16 X 16	-	TO-72 / UB	PNP
	JANTXV2N4957	426	16 X 16	-	TO-72 / UB	PNP
	JANS2N4957	426	16 X 16	-	TO-72 / UB	PNP
	JANSR2N4957	426	16 X 16	-	TO-72 / UB	PNP
	JANSF2N4957	426	16 X 16	-	TO-72 / UB	PNP
2N5002	JAN2N5002	534	100 X 100	-	TO-59	NPN
	JANTX2N5002	534	100 X 100	-	TO-59	NPN
	JANTXV2N5002	534	100 X 100	-	TO-59	NPN
2N5003	JAN2N5003	535	100 X 100	-	TO-59	PNP
	JANTX2N5003	535	100 X 100	-	TO-59	PNP
	JANTXV2N5003	535	100 X 100	-	TO-59	PNP
2N5004	JAN2N5004	534	100 X 100	-	TO-59	NPN
	JANTX2N5004	534	100 X 100	-	TO-59	NPN
	JANTXV2N5004	534	100 X 100	-	TO-59	NPN
2N5005	JAN2N5005	535	100 X 100	-	TO-59	PNP
	JANTX2N5005	535	100 X 100	-	TO-59	PNP
	JANTXV2N5005	535	100 X 100	-	TO-59	PNP
2N5109	JAN2N5109	453	16 X 20	-	TO-39 / UB	NPN
	JANTX2N5109	453	16 X 20	-	TO-39 / UB	NPN
	JANTXV2N5109	453	16 X 20	-	TO-39 / UB	NPN
	JANS2N5109	453	16 X 20	-	TO-39 / UB	NPN
2N5151	JAN2N5151	545	100 X 100	-	TO-39	PNP
	JANTX2N5151	545	100 X 100	-	TO-39	PNP
	JANTXV2N5151	545	100 X 100	-	TO-39	PNP
	JANS2N5151	545	100 X 100	-	TO-39	PNP
	JANSR2N5151	545	100 X 100	-	TO-39	PNP
	JANSF2N5151	545	100 X 100	-	TO-39	PNP

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
-	80	80	5	1	0.8	195	-65 to + 200	300	0.15
-	80	80	5	1	0.8	195	-65 to + 200	300	0.15
-	80	80	5	1	0.8	195	-65 to + 200	300	0.15
-	80	80	5	1	0.8	195	-65 to + 200	300	0.15
100 krad	80	80	5	1	0.8	195	-65 to + 200	300	0.15
-	70	100	10	10	1	175	-65 to + 200	200	0.6
-	70	100	10	10	1	175	-65 to + 200	200	0.6
-	70	100	10	10	1	175	-65 to + 200	200	0.6
-	70	100	10	10	1	175	-65 to + 200	200	0.6
-	70	100	10	10	1	175	-65 to + 200	200	0.6
-	70	100	10	10	1	175	-65 to + 200	200	0.6
-	15	15	0.03	0.2	860	175	-65 to + 200	150	0.15
-	15	15	0.03	0.2	860	175	-65 to + 200	150	0.15
-	15	15	0.03	0.2	860	175	-65 to + 200	150	0.15
-	15	15	0.03	0.2	860	175	-65 to + 200	150	0.15
100 krad	15	15	0.03	0.2	860	175	-65 to + 200	150	0.15
300 krad	15	15	0.03	0.2	860	175	-65 to + 200	150	0.15
-	20	40	6	0.1	0.36	400	-65 to + 200	120	0.2
-	20	40	6	0.1	0.36	400	-65 to + 200	120	0.2
-	20	40	6	0.1	0.36	400	-65 to + 200	120	0.2
-	20	40	6	0.1	0.36	400	-65 to + 200	120	0.2
100 krad	20	40	6	0.1	0.36	400	-65 to + 200	120	0.2
300 krad	20	40	6	0.1	0.36	400	-65 to + 200	120	0.2
-	30	30	3	0.03	0.2	600	-65 to + 200	165	0.15
-	30	30	3	0.03	0.2	600	-65 to + 200	165	0.15
-	30	30	3	0.03	0.2	600	-65 to + 200	165	0.15
-	30	30	3	0.03	0.2	600	-65 to + 200	165	0.15
100 krad	30	30	3	0.03	0.2	600	-65 to + 200	165	0.15
300 krad	30	30	3	0.03	0.2	600	-65 to + 200	165	0.15
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	80	100	5.5	5	2	88	-65 to + 200	90	0.75
-	20	40	3	0.4	1	175	-65 to + 200	150	0.5
-	20	40	3	0.4	1	175	-65 to + 200	150	0.5
-	20	40	3	0.4	1	175	-65 to + 200	150	0.5
-	20	40	3	0.4	1	175	-65 to + 200	150	0.5
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
100 krad	80	100	5.5	2	1	175	-65 to + 200	90	0.75
300 krad	80	100	5.5	2	1	175	-65 to + 200	90	0.75

Bipolar Transistors

PART NUMBER	QPL PART NUMBER	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N5151L	JAN2N5151L	545	100 X 100	-	TO-5	PNP
	JANTX2N5151L	545	100 X 100	-	TO-5	PNP
	JANTXV2N5151L	545	100 X 100	-	TO-5	PNP
	JANS2N511L	545	100 X 100	-	TO-5	PNP
	JANSR2N5151L	545	100 X 100	-	TO-5	PNP
	JANSF2N5151L	545	100 X 100	-	TO-5	PNP
2N5152	JAN2N5152	544	100 X 100	-	TO-39	NPN
	JANTX2N5152	544	100 X 100	-	TO-39	NPN
	JANTXV2N5152	544	100 X 100	-	TO-39	NPN
	JANS2N5152	544	100 X 100	-	TO-39	NPN
	JANSR2N5152	544	100 X 100	-	TO-39	NPN
	JANSF2N5152	544	100 X 100	-	TO-39	NPN
2N5152L	JAN2N5152L	544	100 X 100	-	TO-5	NPN
	JANTX5152L	544	100 X 100	-	TO-5	NPN
	JANTXV2N5152L	544	100 X 100	-	TO-5	NPN
	JANS2N5152L	544	100 X 100	-	TO-5	NPN
	JANSR2N5152L	544	100 X 100	-	TO-5	NPN
	JANSF2N5152L	544	100 X 100	-	TO-5	NPN
2N5153	JAN2N5153	545	100 X 100	-	TO-39	PNP
	JANTX2N5153	545	100 X 100	-	TO-39	PNP
	JANTXV2N5153	545	100 X 100	-	TO-39	PNP
	JANS2N5153	545	100 X 100	-	TO-39	PNP
	JANSR2N5153	545	100 X 100	-	TO-39	PNP
	JANSF2N5153	545	100 X 100	-	TO-39	PNP
2N5153L	JAN2N5153L	545	100 X 100	-	TO-5	PNP
	JANTX2N5153L	545	100 X 100	-	TO-5	PNP
	JANTXV2N5153L	545	100 X 100	-	TO-5	PNP
	JANS2N5153L	545	100 X 100	-	TO-5	PNP
	JANSR2N5153L	545	100 X 100	-	TO-5	PNP
	JANSF2N5153L	545	100 X 100	-	TO-5	PNP
2N5154	JAN2N5154	544	100 X 100	-	TO-39	NPN
	JANTX2N5154	544	100 X 100	-	TO-39	NPN
	JANTXV2N5154	544	100 X 100	-	TO-39	NPN
	JANS2N5154	544	100 X 100	-	TO-39	NPN
	JANSR2N5154	544	100 X 100	-	TO-39	NPN
	JANSF2N5154	544	100 X 100	-	TO-39	NPN
2N5154L	JAN2N5154L	544	100 X 100	-	TO-5	NPN
	JANTX2N5154L	544	100 X 100	-	TO-5	NPN
	JANTXV2N5154L	544	100 X 100	-	TO-5	NPN
	JANS2N5154L	544	100 X 100	-	TO-5	NPN
	JANSR2N5154L	544	100 X 100	-	TO-5	NPN
	JANSF2N5154L	544	100 X 100	-	TO-5	NPN
2N5237	JAN2N5237	394	155 X 155	-	TO-5	NPN
	JANTX2N5237	394	155 X 155	-	TO-5	NPN
	JANTXV2N5237	394	155 X 155	-	TO-5	NPN
2N5339	JAN2N5339	560	100 X 100	-	TO-39	NPN
	JANTX2N5339	560	100 X 100	-	TO-39	NPN
	JANTXV2N5339	560	100 X 100	-	TO-39	NPN

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
100 krad	80	100	5.5	2	1	175	-65 to + 200	90	0.75
300 krad	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
100 krad	80	100	5.5	2	1	175	-65 to + 200	90	0.75
300 krad	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	90	0.75
100 krad	80	100	5.5	2	1	175	-65 to + 200	90	0.75
300 krad	80	100	5.5	2	1	175	-65 to + 200	90	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
100 krad	80	100	5.5	2	1	175	-65 to + 200	200	0.75
300 krad	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
100 krad	80	100	5.5	2	1	175	-65 to + 200	200	0.75
300 krad	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	80	100	5.5	2	1	175	-65 to + 200	200	0.75
100 krad	80	100	5.5	2	1	175	-65 to + 200	200	0.75
300 krad	80	100	5.5	2	1	175	-65 to + 200	200	0.75
-	120	150	10	10	1	175	-65 to + 200	225	0.6
-	120	150	10	10	1	175	-65 to + 200	225	0.6
-	120	150	10	10	1	175	-65 to + 200	225	0.6
-	100	100	6	5	1	175	-65 to + 200	240	0.7
-	100	100	6	5	1	175	-65 to + 200	240	0.7
-	100	100	6	5	1	175	-65 to + 200	240	0.7

Bipolar Transistors

PART NUMBER	QPL PART NUMBER	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N5581	JAN2N5581	423	20 X 20	-	TO-46	NPN
	JANTX2N5581	423	20 X 20	-	TO-46	NPN
	JANTXV2N5581	423	20 X 20	-	TO-46	NPN
2N5582	JAN2N5582	423	20 X 20	-	TO-46	NPN
	JANTX2N5582	423	20 X 20	-	TO-46	NPN
	JANTXV2N5582	423	20 X 20	-	TO-46	NPN
2N5666S	JAN2N5666S	455	122 X 122	-	TO-39	NPN
	JANTX2N5666S	455	122 X 122	-	TO-39	NPN
	JANTXV2N5666S	455	122 X 122	-	TO-39	NPN
2N6193	JAN2N6193	561	100 X 100	HC / KC	TO-39	PNP
	JANTX2N6193	561	100 X 100	HC / KC	TO-39	PNP
	JANTXV2N6193	561	100 X 100	HC / KC	TO-39	PNP
2N6987	JAN2N6987	588	20 X 20	-	Cerdip	PNP
	JANTX2N6987	588	20 X 20	-	Cerdip	PNP
	JANTXV2N6987	588	20 X 20	-	Cerdip	PNP
	JANS2N6987	588	20 X 20	-	Cerdip	PNP
	JANSR2N6987	588	20 X 20	-	Cerdip	PNP
	JANSF2N6987	588	20 X 20	-	Cerdip	PNP
2N6988	JAN2N6988	588	20 X 20	-	14L FP	PNP
	JANTX2N6988	588	20 X 20	-	14L FP	PNP
	JANTXV2N6988	588	20 X 20	-	14L FP	PNP
	JANS2N6988	588	20 X 20	-	14L FP	PNP
	JANSR2N6988	588	20 X 20	-	14L FP	PNP
	JANSF2N6988	588	20 X 20	-	14L FP	NPN
2N6989	JAN2N6989	559	20 X 20	-	Cerdip	NPN
	JANTX2N6989	559	20 X 20	-	Cerdip	NPN
	JANTXV2N6989	559	20 X 20	-	Cerdip	NPN
	JANS2N6989	559	20 X 20	-	Cerdip	NPN
	JANSR2N6989	559	20 X 20	-	Cerdip	NPN
2N6990	JAN2N6990	559	20 X 20	-	14L FP	NPN
	JANTX2N6990	559	20 X 20	-	14L FP	NPN
	JANTXV2N6990	559	20 X 20	-	14L FP	NPN
	JANS2N6990	559	20 X 20	-	14L FP	NPN
	JANSR2N6990	559	20 X 20	-	14L FP	NPN

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
-	50	75	6	0.8	0.5	325	-65 to + 200	120	0.3
-	50	75	6	0.8	0.5	325	-65 to + 200	120	0.3
-	50	75	6	0.8	0.5	325	-65 to + 200	120	0.3
-	50	75	6	0.8	0.5	325	-65 to + 200	300	0.3
-	50	75	6	0.8	0.5	325	-65 to + 200	300	0.3
-	50	75	6	0.8	0.5	325	-65 to + 200	300	0.3
-	200	250	6	5	1.2	145	-65 to + 200	120	0.4
-	200	250	6	5	1.2	145	-65 to + 200	120	0.4
-	200	250	6	5	1.2	145	-65 to + 200	120	0.4
-	100	100	6	5	1	175	-65 to + 200	240	0.7
-	100	100	6	5	1	175	-65 to + 200	240	0.7
-	100	100	6	5	1	175	-65 to + 200	240	0.7
-	60	60	5	0.6	1.5	85	-65 to + 200	450	0.4
-	60	60	5	0.6	1.5	85	-65 to + 200	450	0.4
-	60	60	5	0.6	1.5	85	-65 to + 200	450	0.4
-	60	60	5	0.6	1.5	85	-65 to + 200	450	0.4
100 krad	60	60	5	0.6	1.5	85	-65 to + 200	450	0.4
300 krad	60	60	5	0.6	1.5	85	-65 to + 200	450	0.4
-	60	60	5	0.6	1	175	-65 to + 200	450	0.4
-	60	60	5	0.6	1	175	-65 to + 200	450	0.4
-	60	60	5	0.6	1	175	-65 to + 200	450	0.4
-	60	60	5	0.6	1	175	-65 to + 200	450	0.4
100 krad	60	60	5	0.6	1	175	-65 to + 200	450	0.4
300 krad	50	75	6	0.8	1.5	175	-65 to + 200	450	0.4
-	50	75	6	0.8	1.5	175	-65 to + 200	450	0.4
-	50	75	6	0.8	1.5	175	-65 to + 200	450	0.4
-	50	75	6	0.8	1.5	175	-65 to + 200	450	0.4
-	50	75	6	0.8	1.5	175	-65 to + 200	450	0.4
100 krad	50	75	6	0.8	1.5	175	-65 to + 200	450	0.4
-	50	75	6	0.8	1	175	-65 to + 200	325	0.3
-	50	75	6	0.8	1	175	-65 to + 200	325	0.3
-	50	75	6	0.8	1	175	-65 to + 200	325	0.3
-	50	75	6	0.8	1	175	-65 to + 200	325	0.3
100 krad	50	75	6	0.8	1	175	-65 to + 200	325	0.3

New Transistor Devices

PART NUMBER	QPL Part Number (Pending Qualification)	Slash Sheet	Die-Size	QPL Die Level	Package	Type
2N2920	X	355	18 X 18	KC	TO-78	NPN
2N3960	X	399	16 X 16	KC	TO-18	NPN
2N3637	X	357	30 X 30	KC	TO-39	PNP
2N4209	X	X	16 X 16	KC	TO-18	PNP
2N5666	X	455	121 X 121	KC	TO-5	NPN

Rad Hard	VCEO (V)	VCBO (V)	VEBO (V)	IC (A)	Power (W) Ta	Rtja (°C/W)	Tstg/Top (°C)	Max HFE	VCE(sat) (V)
100-300 krad	60	70	6	3	2	875	-65 to + 200	175	0.3
100-300 krad	12	20	4.5	1	4	*	-65 to + 200	40	0.2
100-300 krad	175	175	5	1	1	175	-65 to + 200	55	0.3
100-300 krad	15	15	4.5	50	3.6	250	-65 to + 200	125	0.18
100-300 krad	200	250	6	5	1.2	145	-65 to + 200	120	0.4

Radiation Hardened MOSFETs

PART NUMBER	SEMICOA NUMBER	Package	Type	TID	BVDSS (V)	IDS (A)	RDS(on) mΩ	VGS(th) (V)	Qg (nC)
<i>VR = equivalent to JANTXVR</i>									
N CHANNEL DEVICES									
<i>JS = equivalent to JANSR</i>									
2N7479	SCF2N7479U3VR	SMD0.5	N	100 krad	30	22	20	2 - 4	45
	SCF2N7479U3SR	SMD0.5	N	100 krad	30	22	20	2 - 4	45
2N7468	SCF2N7468U2VR	SMD2	N	100 krad	60	75	56	2 - 4	165
	SCF2N7468U2SR	SMD2	N	100 krad	60	75	56	2 - 4	165
2N7470	SCF2N7470T1VR	TO-254 AA	N	100 krad	60	35	12	2 - 4	150
	SCF2N7470T1SR	TO-254 AA	N	100 krad	60	35	12	2 - 4	150
2N7431U	SCF2N7431U2VR	SMD2	N	100 krad	60	75	15	2 - 4	270
	SCF2N7431U2SR	SMD2	N	100 krad	60	75	15	2 - 4	270
2N7431	SCF2N7431T1VR	TO-254 AA	N	100 krad	60	35	21	2 - 4	270
	SCF2N7431T1SR	TO-254 AA	N	100 krad	60	35	21	2 - 4	270
2N7394	SCF2N7394T1VR	TO-254 AA	N	100 krad	60	35	27	2 - 4	200
	SCF2N7394T1SR	TO-254 AA	N	100 krad	60	35	27	2 - 4	200
2N7480	SCF2N7480U3VR	SMD0.5	N	100 krad	60	22	30	2 - 4	45
	SCF2N7480U3SR	SMD0.5	N	100 krad	60	22	30	2 - 4	45
2N7606	SCF2N7606U3VR	SMD0.5	N	100 krad	60	22	34	2 - 4	34
	SCF2N7606U3SR	SMD0.5	N	100 krad	60	22	34	2 - 4	34
2N7616	SCF2N7616UBVR	UB	N	100 krad	60	0.8	550	2 - 4	4
	SCF2N7616UBSR	UB	N	100 krad	60	0.8	550	2 - 4	4
2N7469	SCF2N7469U2VR	SMD-2	N	100 krad	100	45	12	2 - 4	160
	SCF2N7469U2SR	SMD-2	N	100 krad	100	45	12	2 - 4	160
2N7471	SCF2N7471T1VR	TO-254 AA	N	100 krad	100	45	13	2 - 4	160
	SCF2N7471T1SR	TO-254 AA	N	100 krad	100	45	13	2 - 4	160
2N7587	SCF2N7587U3VR	SMD0.5	N	100 krad	100	22	42	2 - 4	50
	SCF2N7587U3SR	SMD0.5	N	100 krad	100	22	42	2 - 4	50
2N7268	SCF2N7268T1VR	TO-254 AA	N	100 krad	100	34	65	2 - 4	160
	SCF2N7268T1SR	TO-254 AA	N	100 krad	100	34	65	2 - 4	160
2N7481	SCF2N7481U3VR	SMD0.5	N	100 krad	100	14	70	2 - 4	50
	SCF2N7481U3SR	SMD0.5	N	100 krad	100	14	70	2 - 4	50
2N7493	SCF2N7493T2VR	TO-205 AF	N	100 krad	100	11.7	80	2 - 4	50
	SCF2N7493T2SR	TO-205 AF	N	100 krad	100	11.7	80	2 - 4	50
2N7261	SCF2N7261T2VR	TO-205 AF	N	100 krad	100	8	180	2 - 4	50
	SCF2N7261T2SR	TO-205 AF	N	100 krad	100	8	180	2 - 4	50
2N7485	SCF2N7485U3VR	SMD0.5	N	100 krad	130	20	80	2 - 4	48
	SCF2N7485U3SR	SMD0.5	N	100 krad	130	20	80	2 - 4	48
2N7589	SCF2N7589U3VR	SMD0.5	N	100 krad	150	19	88	2 - 4	50
	SCF2N7589U3SR	SMD0.5	N	100 krad	150	19	88	2 - 4	50
2N7590	SCF2N7590T3VR	TO-257	N	100 krad	150	19	90	2 - 4	50
	SCF2N7590T3SR	TO-257	N	100 krad	150	19	90	2 - 4	50

Radiation Hardened MOSFETs (CONT.)

PART NUMBER	SEMICOA NUMBER	Package	Type	TID	BVDSS (V)	IDS (A)	RDS(on) mΩ	VGS(th) (V)	Qg (nC)
<i>VR = equivalent to JANTXVR</i>									
N CHANNEL DEVICES									
<i>JS = equivalent to JANSR</i>									
2N7473	SCF2N7473U2VR	SMD2	N	100 krad	200	53.5	38	2 - 4	155
	SCF2N7473U2SR	SMD2	N	100 krad	200	53.5	38	2 - 4	155
2N7476	SCF2N7476T1VR	TO-254 AA	N	100 krad	200	45	44	2 - 4	165
	SCF2N7476T1SR	TO-254 AA	N	100 krad	200	45	44	2 - 4	165
SCF2351	SCF2351T1VR	TO-254 AA	N	100 krad	200	22	60	2 - 4	50
	SCF2351T1SR	TO-254 AA	N	100 krad	200	22	60	2 - 4	50
2N7269	SCF2N7269T1VR	TO-254 AA	N	100 krad	200	26	100	2 - 4	170
	SCF2N7269T1SR	TO-254 AA	N	100 krad	200	26	100	2 - 4	170
2N7591	SCF2N7591U3VR	SMD0.5	N	100 krad	200	16	130	2 - 4	42
	SCF2N7591U3SR	SMD0.5	N	100 krad	200	16	130	2 - 4	42
2N7592	SCF2N7592T3VR	TO-257	N	100 krad	200	16	130	2 - 4	42
	SCF2N7592T3SR	TO-257	N	100 krad	200	16	130	2 - 4	42
2N7486	SCF2N7486U3VR	SMD0.5	N	100 krad	200	12	220	2 - 4	35
	SCF2N7486U3SR	SMD0.5	N	100 krad	200	12	220	2 - 4	35
2N7489	SCF2N7489T3VR	TO-257	N	100 krad	200	12	230	2 - 4	35
	SCF2N7489T3SR	TO-257	N	100 krad	200	12	230	2 - 4	35
2N7498	SCF2N7498T2VR	TO-205 AF	N	100 krad	200	12	240	2 - 4	35
	SCF2N7498T2SR	TO-205 AF	N	100 krad	200	12	240	2 - 4	35
2N7262	SCF2N7262T2VR	TO-205 AF	N	100 krad	200	5.5	350	2 - 4	50
	SCF2N7262T2SR	TO-205 AF	N	100 krad	200	5.5	350	2 - 4	50
2N7390	SCF2N7390T2VR	TO-205 AF	N	100 krad	200	4	800	2 - 4	45
	SCF2N7390T1SR	TO-254 AA	N	100 krad	200	4	800	2 - 4	45
2N7474	SCF2N7474U2VR	SMD2	N	100 krad	250	45	60	2 - 4	165
	SCF2N7474U2SR	SMD2	N	100 krad	250	45	60	2 - 4	165
2N7477	SCF2N7477T1VR	TO-254 AA	N	100 krad	250	37	61	2 - 4	165
	SCF2N7477T1SR	TO-254 AA	N	100 krad	250	37	61	2 - 4	165
2N7465	SCF2N7465U3VR	SMD0.5	N	100 krad	400	5	1390	2 - 4	31
	SCF2N7465U3SR	SMD0.5	N	100 krad	400	5	1390	2 - 4	31
2N7270	SCF2N7270T1VR	TO-254 AA	N	100 krad	500	11	450	2 - 4	150
	SCF2N7270T1SR	TO-254 AA	N	100 krad	500	11	450	2 - 4	150
2N7464	SCF2N7464T2VR	TO-205 AF	N	100 krad	500	2.5	1770	2 - 4	30
	SCF2N7464T2SR	TO-205 AF	N	100 krad	500	2.5	1770	2 - 4	30

SEMICOA's Rad Hard Qualification Process

SEMICOA exceeds the requirements of MIL-PRF-19500 in its testing of Rad Hard MOSFET's. For Total Dose Environment we test to the Group D end points and to the deltas (Group D minus Group D). SEMICOA tests with a larger sample size, and meets limits with a statistical assurance at the 0.99/90% level. For Single Event Effects we characterize our devices to MIL-PRF-19500 and enhance that requirement testing with the Bragg Peak of the ion species used, placed at the worse-case depth at the Epitaxial/Substrate interface. Devices are assured to a worse-case level guaranteeing superior Rad Hard reliability.

Radiation Hardened MOSFETs

PART NUMBER	SEMICOA NUMBER	Package	Type	TID	BVDSS (V)	IDS (A)	RDS(on) mΩ	VGS(th) (V)	Qg (nC)
<i>VR = equivalent to JANTXVR</i>									
P CHANNEL DEVICES					<i>JS = equivalent to JANSR</i>				
2N7524	SCF2N7524U2VR	SMD2	P	100 krad	-60	-56	16	-4 to -2	200
	SCF2N7524U2SR	SMD2	P	100 krad	-60	-56	16	-4 to -2	200
2N7424	SCF2N7424U2SR	SMD2	P	100 krad	-60	-48	45	-4 to -2	300
	SCF2N7424U2VR	SMD2	P	100 krad	-60	-48	45	-4 to -2	300
	SCF2N7424T1VR	TO-254 AA	P	100 krad	-60	-48	48	-4 to -2	300
2N7520	SCF2N7424T1SR	TO-254 AA	P	100 krad	-60	-48	48	-4 to -2	240
	SCF2N7520U3VR	SMD0.5	P	100 krad	-60	-22	85	-4 to -2	45
2N7626	SCF2N7520U3SR	SMD0.5	P	100 krad	-60	-22	85	-4 to -2	45
	SCF2N7626UBVR	UB	P	100 krad	-60	-0.5	1400	-4 to -2	4
2N7550U	SCF2N7626UBSR	UB	P	100 krad	-60	-0.5	1400	-4 to -2	4
	SCF2N7550U2VR	SMD2	P	100 krad	-100	-47	49	-4 to -2	170
2N7550	SCF2N7550U2SR	SMD2	P	100 krad	-100	-47	49	-4 to -2	170
	SCF2N7550T1VR	TO-254 AA	P	100 krad	-100	-45	50	-4 to -2	170
2N7425U	SCF2N7550T1SR	TO-254 AA	P	100 krad	-100	-45	50	-4 to -2	170
	SCF2N7425U2VR	SMD2	P	100 krad	-100	-35	68	-4 to -2	290
2N7425	SCF2N7425U2SR	SMD2	P	100 krad	-100	-35	68	-4 to -2	290
	SCF2N7425T1VR	TO-254 AA	P	100 krad	-100	-35	73	-4 to -2	290
2N7422	SCF2N7425T1SR	TO-254 AA	P	100 krad	-100	-35	73	-4 to -2	290
	SCF2N7422T1VR	TO-254 AA	P	100 krad	-100	-23	80	-4 to -2	200
	SCF2N7422T1SR	TO-254 AA	P	100 krad	-100	-23	80	-4 to -2	200

Radiation Hardened MOSFETs (CONT.)

PART NUMBER	SEMICOA NUMBER	Package	Type	TID	BVDSS (V)	IDS (A)	RDS(on) mΩ	VGS(th) (V)	Qg (nC)
<i>VR = equivalent to JANTXVR</i>									
P CHANNEL DEVICES					<i>JS = equivalent to JANSR</i>				
2N7545	SCF2N7545U3VR	SMD0.5	P	100 krad	-100	-13	205	-4 to -2	45
	SCF2N7545U3SR	SMD0.5	P	100 krad	-100	-13	205	-4 to -2	45
2N7389	SCF2N7389T2VR	TO-205 AF	P	100 krad	-100	-6.5	300	-4 to -2	45
	SCF2N7389T2SR	TO-205 AF	P	100 krad	-100	-6.5	300	-4 to -2	45
SCF9110	SCF9110T2VR	TO-205 AF	P	100 krad	-100	-2.5	1200	-4 to -2	9.8
	SCF9110T2SR	TO-205 AF	P	100 krad	-100	-2.5	1200	-4 to -2	9.8
2N7549U	SCF2N7549U2VR	SMD2	P	100 krad	-200	-34	102	-4 to -2	180
	SCF2N7549U2SR	SMD2	P	100 krad	-200	-34	102	-4 to -2	180
2N7549	SCF2N7549T1VR	TO-254 AA	P	100 krad	-200	-30	103	-4 to -2	180
	SCF2N7549T1SR	TO-254 AA	P	100 krad	-200	-30	103	-4 to -2	180
2N7426U	SCF2N7426U2VR	SMD2	P	100 krad	-200	-29	154	-4 to -2	300
	SCF2N7426U2SR	SMD2	P	100 krad	-200	-29	154	-4 to -2	300
2N7426	SCF2N7426T1VR	TO-254 AA	P	100 krad	-200	-27	160	-4 to -2	300
	SCF2N7426T1SR	TO-254 AA	P	100 krad	-200	-27	160	-4 to -2	300
2N7423	SCF2N7423T1VR	TO-254 AA	P	100 krad	-200	-14	315	-4 to -2	200
	SCF2N7423T1SR	TO-254 AA	P	100 krad	-200	-14	315	-4 to -2	200
2N7546	SCF2N7546U3VR	SMD0.5	P	100 krad	-200	-8	505	-4 to -2	45
	SCF2N7546U3SR	SMD0.5	P	100 krad	-200	-8	505	-4 to -2	45



Military | Aerospace MOSFETs

PART NUMBER	SEMICOA NUMBER	Package	Type	BVDSS (V)	IDS (A)	RDS(on) mΩ	VGS(th) (V)	Qg (nC)	Slash Sheet
N CHANNEL DEVICES									
2N7224	JAN2N7224	TO-254	N	100	34	70	2 - 4	125	592
	JANTX2N7224	TO-254	N	100	34	70	2 - 4	125	
	JANTXV2N7224	TO-254	N	100	34	70	2 - 4	125	
2N6796	JAN2N6796	TO-205	N	100	8	180	2 - 4	28.5	557
	JANTX2N6796	TO-205	N	100	8	180	2 - 4	28.5	
	JANTXV2N6796	TO-205	N	100	8	180	2 - 4	28.5	
2N6788	JAN2N6788	TO-205	N	100	6	300	2 - 4	18	555
	JANTX2N6788	TO-205	N	100	6	300	2 - 4	18	
	JANTXV2N6788	TO-205	N	100	6	300	2 - 4	18	
2N6782	JAN2N6782	TO-205	N	100	3.5	600	2 - 4	6.5	556
	JANTX2N6782	TO-205	N	100	3.5	600	2 - 4	6.5	
	JANTXV2N6782	TO-205	N	100	3.5	600	2 - 4	6.5	
2N7225	JAN2N7225	TO-254	N	200	27.4	100	2 - 4	115	592
	JANTX2N7225	TO-254	N	200	27.4	100	2 - 4	115	
	JANTXV2N7225	TO-254	N	200	27.4	100	2 - 4	115	
2N7219	JAN2N7219	TO-254	N	200	18	180	2 - 4	60	596
	JANTX2N7219	TO-254	N	200	18	180	2 - 4	60	
	JANTXV2N7219	TO-254	N	200	18	180	2 - 4	60	
2N6798	JAN2N6798	TO-205	N	200	5.5	400	2 - 4	42.1	557
	JANTX2N6798	TO-205	N	200	5.5	400	2 - 4	42.1	
	JANTXV2N6798	TO-205	N	200	5.5	400	2 - 4	42.1	
2N6790	JAN2N6790	TO-205	N	200	3.5	800	2 - 4	14.3	555
	JANTX2N6790	TO-205	N	200	3.5	800	2 - 4	14.3	
	JANTXV2N6790	TO-205	N	200	3.5	800	2 - 4	14.3	
2N7227	JAN2N7227	TO-254	N	400	14	315	2 - 4	110	592
	JANTX2N7227	TO-254	N	400	14	315	2 - 4	110	
	JANTXV2N7227	TO-254	N	400	14	315	2 - 4	110	
2N6800	JAN2N6800	TO-205	N	400	3	1000	2 - 4	33	557
	JANTX2N6800	TO-205	N	400	3	1000	2 - 4	33	
	JANTXV2N6800	TO-205	N	400	3	1000	2 - 4	33	
2N6792	JAN2N6792	TO-205	N	400	2	1800	2 - 4	22	555
	JANTX2N6792	TO-205	N	400	2	1800	2 - 4	22	
	JANTXV2N6792	TO-205	N	400	2	1800	2 - 4	22	
2N7270	JAN2N7270	TO-254	N	500	11	450	2 - 4	150	603
	JANTX2N7270	TO-254	N	500	11	450	2 - 4	150	
	JANTXV2N7270	TO-254	N	500	11	450	2 - 4	150	
2N7228	JAN2N7228	TO-254	N	500	12	415	2 - 4	120	592
	JANTX2N7228	TO-254	N	500	12	415	2 - 4	120	
	JANTXV2N7228	TO-254	N	500	12	415	2 - 4	120	

Military | Aerospace MOSFETs (CONT.)

PART NUMBER	SEMICOA NUMBER	Package	Type	BVDSS (V)	IDS (A)	RDS(on) mΩ	VGS(th) (V)	Qg (nC)	Slash Sheet
N CHANNEL DEVICES									
2N6802	JAN2N6802	TO-205	N	500	2.5	1500	2 - 4	29.5	557
	JANTX2N6802	TO-205	N	500	2.5	1500	2 - 4	29.5	
	JANTXV2N6802	TO-205	N	500	2.5	1500	2 - 4	29.5	
P CHANNEL DEVICES									
2N7236	JAN2N7236	TO-254	P	-100	-18	200	2 - 4	60	595
	JANTX2N7236	TO-254	P	-100	-18	200	2 - 4	60	
	JANTXV2N7236	TO-254	P	-100	-18	200	2 - 4	60	
	JANS2N7236	TO-254	P	-100	-18	200	2 - 4	60	
2N6849	JAN2N6849	TO-205	P	-100	-6.5	300	2 - 4	34.8	564
	JANTX2N6849	TO-205	P	-100	-6.5	300	2 - 4	34.8	
	JANTXV2N6849	TO-205	P	-100	-6.5	300	2 - 4	34.8	
	JANS2N6849	TO-205	P	-100	-6.5	300	2 - 4	34.8	
2N6851	JAN2N6851	TO-205	P	-200	-4	800	2 - 4	34.8	564
	JANTX2N6851	TO-205	P	-200	-4	800	2 - 4	34.8	
	JANTXV2N6851	TO-205	P	-200	-4	800	2 - 4	34.8	
2N6847	JAN2N6847	TO-205	P	-200	-2.5	1500	2 - 4	15	563
	JANTX2N6847	TO-205	P	-200	-2.5	1500	2 - 4	15	
	JANTXV2N6847	TO-205	P	-200	-2.5	1500	2 - 4	15	

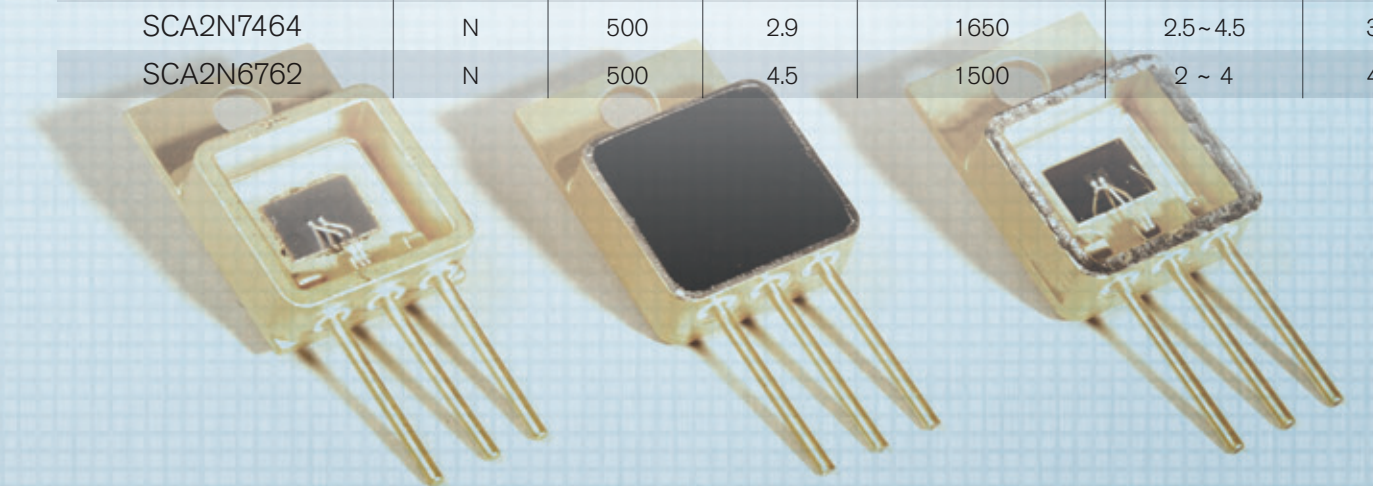


Commercial Power MOSFETs

PART NUMBER	Type	BVD (V)	IDS (A)	RDS(on) mΩ	VGS(th) (V)	Qg (nC)
SCA2N7423	P	-200	-14	315	-4 ~ -2	200
SCA2N7426	P	-200	-27	160	-4 ~ -2	300
SCF593260	P	-200	-30	103	-4 ~ -2	-4 ~ -2
SCA2N7506	P	-100	-3.1	1200	-4 ~ -2	11
SCF9110	P	-100	-2.5	1200	-4 ~ -2	16
SCF9150	P	-100	-22.5	80	-4 ~ -1	200
SCA2N7422	P	-100	-22	80	-4 ~ -2	200
SCF597130	P	-100	-6.7	240	-4 ~ -2	40
SCA2N7389	P	-100	-6.5	300	-4 ~ -2	45
SCA2N7545	P	-100	-12.5	205	-4 ~ -2	45
SCA2N7425	P	-100	-35	73	-4 ~ -2	290
SCA2N7550	P	-100	-45	50	-4 ~ -2	170
SCF4483	P	-75	13	9	-4 ~ -2	200
SCA2N7626	P	-60	-0.53	1400	-2 ~ -1	3.6
SCA2N7520	P	-60	-21	85	-4 ~ -2	45
SCA2N7424	P	-60	-48	48	-4 ~ -2	300
SCF593064	P	-60	-45	17	-4 ~ -2	200
SCF4413	P	-30	-15	7.5	-3 ~ -1	-4 ~ -2
SCA2N7479	N	30	22	20	2 ~ 4	45
SCA2N7478	N	30	45	4.5	2 ~ 4	240
SCA2N7467	N	30	75	3.5	2 ~ 4	200
SCA2N7616	N	60	0.8	550	1 ~ 2	3.6
SCA2N7606	N	60	22	35	1 ~ 2	34
SCA2N7480	N	60	22	30	2 ~ 4	45
SCF57064	N	60	35	12	2 ~ 4	160
SCA2N7394	N	60	35	27	2 ~ 4	200
SCA2N7431	N	60	35	21	2 ~ 4	270
SCA2N7520	N	60	21	85	2 ~ 4	200
SCA2N7470	N	60	45	6.6	2 ~ 4	240
SCF53064	N	60	35	6.6	2 ~ 4	235
SCA2N7524	N	60	56	17	2 ~ 4	235
SCA2N7587	N	100	22	42	2 ~ 4	50
SCF57130	N	100	14	70	2 ~ 4	50
SCA2N6756	N	100	14	180	2 ~ 4	35

Commercial Power MOSFETs

PART NUMBER	Type	BVD (V)	IDS (A)	RDS(on) mΩ	VGS(th) (V)	Qg (nC)
SCA2N7493	N	100	11.7	80	2 ~ 4	50
SCF120	N	100	9.2	270	2 ~ 4	20
SCA2N7503	N	100	6.9	220	2 ~ 4	15
SCA2N7261	N	100	8	180	2 ~ 4	50
SCF53160	N	100	69	12	2 ~ 4	160
SCA2N7471	N	100	45	13	2 ~ 4	160
SCF540	N	100	36	44	2 ~ 4	104
SCA2N7268	N	100	45	130	2 ~ 4	160
SCA2N7485	N	130	20	80	2.5 ~ 4.5	48
SCA2N7589	N	150	19	88	2 ~ 4	50
SCA2N7592	N	200	16	130	2 ~ 4	42
SCF2351	N	200	22	60	2 ~ 4	42
SCA2N7390	N	200	4	800	2 ~ 4	38
SCA2N7262	N	200	5.5	350	2 ~ 4	50
SCA2N7486	N	200	12	220	2.5~4.5	35
SCA2N7489	N	200	12	230	2.5~4.5	35
SCA2N7476	N	200	45	44	2.5 ~ 4.5	165
SCA2N7473	N	200	45	39	2 ~ 4	155
SCF57250	N	200	31	60	2 ~ 4	150
SCF57260	N	200	35	49	2 ~ 4	155
SCA2N7269	N	200	26	100	2 ~ 4	170
SCF57264	N	250	28	60	2.5 ~ 4.5	165
SCF330	N	400	1	1000	2 ~ 4	145
SCA2N7465	N	400	5	1390	2.5~4.5	31
SCF9550	N	450	11	450	2 ~ 4	150
SCA2N7270	N	500	11	450	2 ~ 4	150
SCA2N7464	N	500	2.9	1650	2.5~4.5	30
SCA2N6762	N	500	4.5	1500	2 ~ 4	40



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