



DC COMPONENTS CO., LTD.
RECTIFIER SPECIALISTS

BZT52C2V4S
THRU
BZT52C51S

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT ZENER DIODES

FEATURES

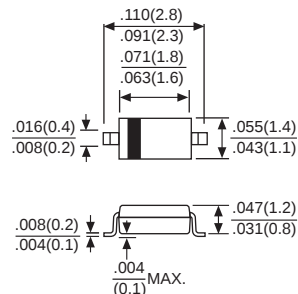
- * Planar Die construction
- * Zener Voltages from 2.4V - 51V
- * 200mW Power Dissipation
- * Ideally Suited for Automated Assembly Processes

MECHANICAL DATA

- * Case: Molded Plastic
- * Terminals: Solder plated, solderable per MIL-STD-202, Method 208
- * Polarity: See Diagram Below
- * Mounting position: Any
- * Weight: 0.008 gram Approx.



SOD-323



Dimensions in inches(millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	VALUE	UNITS
Zener Current see Table "Characteristics"			
Maximum Power Dissipation @TA=25°C	Ptot	200	mW
Maximum Forward Voltage @IF=10mA	VF	0.9	Volts
Typical Thermal Resistance	RθJA	625	°C/W
Operating and Storage Temperature	TJ,Tstg	-55 to +150	°C

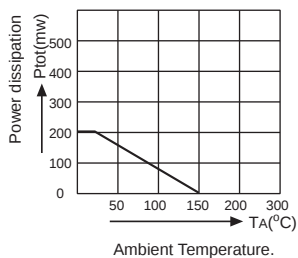
NOTE: Normal Tolerance ±5%

RATING AND CHARACTERISTIC CURVES (BZT52CXXS SERIES)

TYPE	Nominal Zener Voltage $V_Z @ I_{ZT}$		Zener Test Current I_{ZT}	Maximum Zener Impedance			Maximum Reverse Leakage Current	
	Min	Max		$Z_{ZT} @ I_{ZT}$ Ohms	$Z_{ZK} @ I_{ZK}$ Ohms	I_{ZK} mA	$I_R @ V_R$ μA	Volts
BZT52C2V4S	2.2	2.6	5	100	600	1	150	1.0
BZT52C2V7S	2.5	2.9	5	100	600	1	50	1.0
BZT52C3V0S	2.8	3.2	5	95	600	1	20	1.0
BZT52C3V3S	3.1	3.5	5	95	600	1	10	1.0
BZT52C3V6S	3.4	3.8	5	90	600	1	5.0	1.0
BZT52C3V9S	3.7	4.1	5	90	600	1	5.0	1.0
BZT52C4V3S	4.0	4.6	5	90	600	1	3.0	1.0
BZT52C4V7S	4.4	5.0	5	80	500	1	3.0	2.0
BZT52C5V1S	4.8	5.4	5	60	480	1	2.0	2.0
BZT52C5V6S	5.2	6.0	5	40	400	1	1.0	2.0
BZT52C6V2S	5.8	6.6	5	10	150	1	3.0	4.0
BZT52C6V8S	6.4	7.2	5	15	80	1	2.0	4.0
BZT52C7V5S	7.0	7.9	5	15	80	1	1.0	5.0
BZT52C8V2S	7.7	8.7	5	15	80	1	0.7	5.0
BZT52C9V1S	8.5	9.6	5	15	100	1	0.5	6.0
BZT52C10S	9.4	10.6	5	20	150	1	0.2	7.0
BZT52C11S	10.4	11.6	5	20	150	1	0.1	8.0
BZT52C12S	11.4	12.7	5	25	150	1	0.1	8.0
BZT52C13S	12.4	14.1	5	30	170	1	0.1	8.0
BZT52C15S	13.8	15.6	5	30	200	1	0.1	10.5
BZT52C16S	15.3	17.1	5	40	200	1	0.1	11.2
BZT52C18S	16.8	19.1	5	45	225	1	0.1	12.6
BZT52C20S	18.8	21.2	5	55	225	1	0.1	14.0
BZT52C22S	20.8	23.3	5	55	250	1	0.1	15.4
BZT52C24S	22.8	25.6	5	70	250	1	0.1	16.8
BZT52C27S	25.1	28.9	5	80	300	0.5	0.1	18.9
BZT52C30S	28.0	32.0	5	80	300	0.5	0.1	21.0
BZT52C33S	31.0	35.0	5	80	325	0.5	0.1	23.1
BZT52C36S	34.0	38.0	5	90	350	0.5	0.1	25.2
BZT52C39S	37.0	41.0	5	130	350	0.5	0.1	27.3
BZT52C43S	40.0	46.0	5	100	700	1	0.1	32.0
BZT52C47S	44.0	50.0	5	100	750	1	0.1	35.0
BZT52C51S	48.0	54.0	5	100	750	1	0.1	38.0

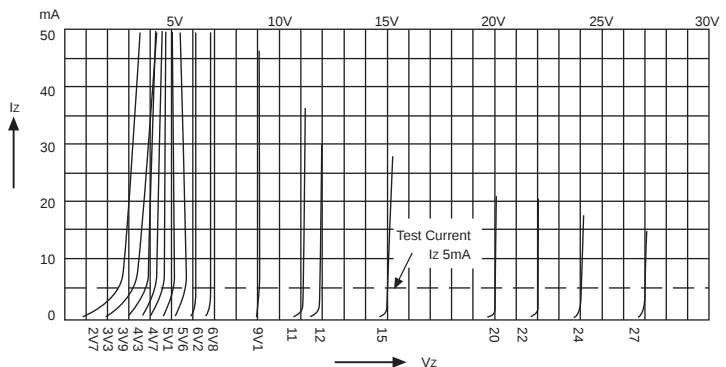
NOTE: Standard Zener Voltage Tolerance $\pm 5\%$

changes in the power dissipation
due to the ambient temperature.



Breakdown characteristics

BZT52-SERIES



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