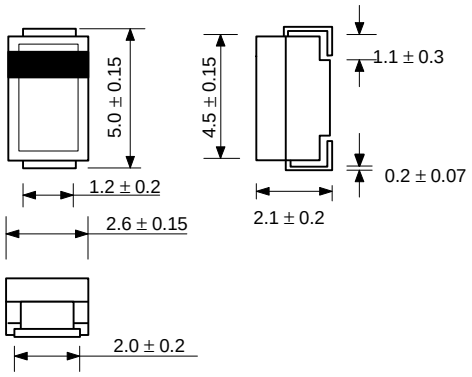
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GN1A - GN13

GLASS PASSIVATED JUNCTION SILICON SURFACE MOUNT

PRV : 50 - 1300 Volts
Io : 1.0 Ampere

SMA (DO-214AC)



Dimensions in millimeters

FEATURES :

* Glass passivated junction chip
* High current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Pb / RoHS Free

MECHANICAL DATA :

* Case : SMA Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Lead Formed for Surface Mount
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.067 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

RATING	SYMBOL	GN1A	GN1B	GN1D	GN1G	GN1J	GN1K	GN1M	GN13	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1300	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	910	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	1300	V
Maximum Average Forward Current Ta = 75 °C	$I_{F(AV)}$	1.0								A
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	30								A
Maximum Forward Voltage at I_F = 1.0 Amp.	V_F	1.0								V
Maximum DC Reverse Current Ta = 25 °C	I_R	5.0								µA
at rated DC Blocking Voltage Ta = 100 °C	$I_{R(H)}$	50								µA
Typical Junction Capacitance (Note1)	C_J	8								pF
Junction Temperature Range	T_J	- 65 to + 150								°C
Storage Temperature Range	T_{STG}	- 65 to + 150								°C

Notes :

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0V_{DC}

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RATING AND CHARACTERISTIC CURVES (GN1A - GN13)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

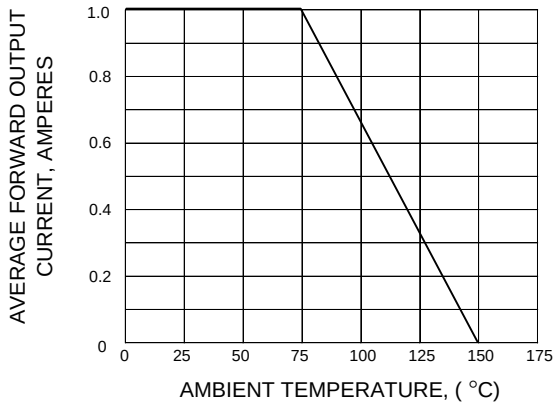


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

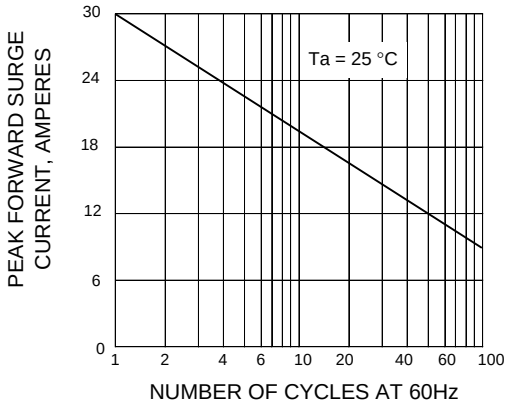


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

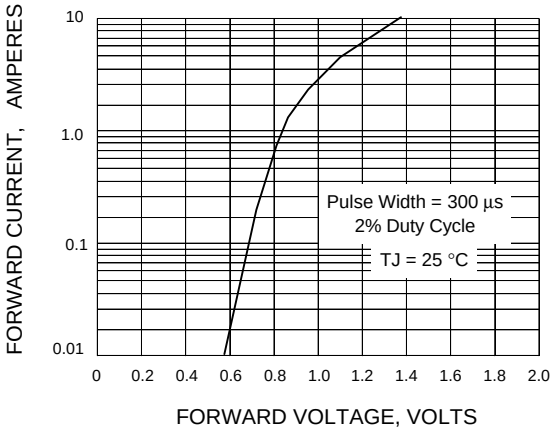
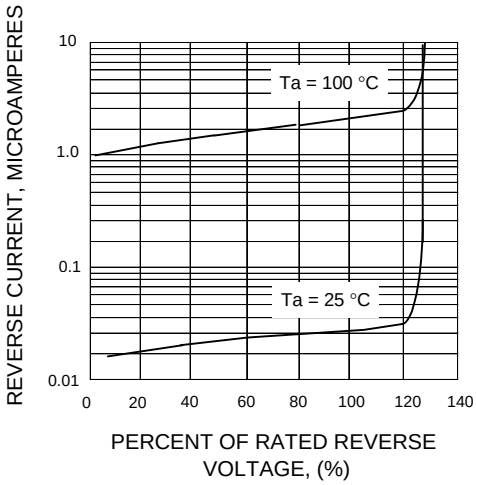


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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