G4933 THRU G4937

GLASS PASSIVATED JUNCTION
FAST SWITCHING PLASTIC RECTIFIER
VOLTAGE: 50 TO 600V CURRENT: 1.0A

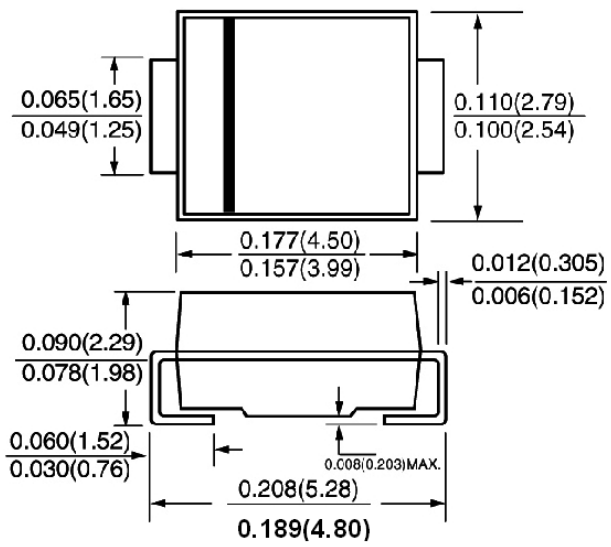
FEATURE

Ideal for surface mount pick and place application
Low profile package
Built-in strain relief
High surge capability
High temperature soldering guaranteed
260℃/10sec/at terminals
Glass passivated chip
Ultrafast recovery time for high efficiency

MECHANICAL DATA

Terminal: Solder plated, solderable per MIL-STD-750, Method 2026
Case: JEDEC DO-214AC molded plastic body over passivated chip
Polarity: Color band denotes cathode

SMA / DO-214AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	G4933	G4934	G4935	G4936	G4937	units
* Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	V
* Maximum RMS Voltage	Vrms	35	70	140	280	420	V
* Maximum DC blocking Voltage	Vdc	50	100	200	400	600	V
* Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.0					A
* Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	30.0					A
* Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.2					V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	5.0 100					μA μA
* Maximum Reverse Recovery Time (Note 1)	Trr	200.0					nS
Typical Junction Capacitance (Note 2)	Cj	15.0					pF
Typical Thermal Resistance (Note 3)	R(ja)	55.0					°C /W
* Storage and Operating Junction Temperature	Tstg, Tj	-55 to +150					°C

Note:
1. Reverse Recovery Condition If =1.0A, Vr =30V
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

* JEDEC registered value

[1]

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

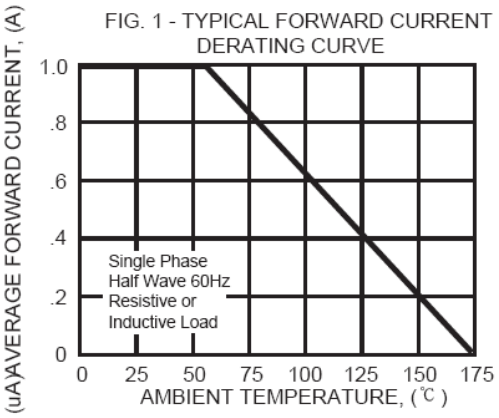


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

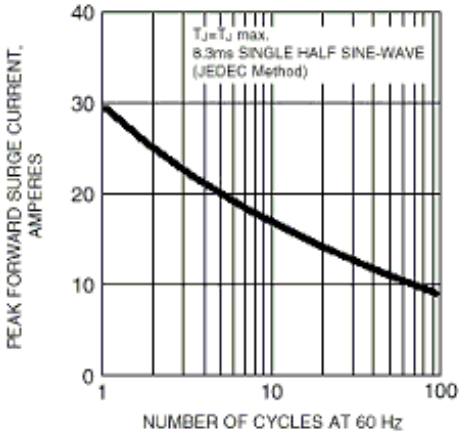


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

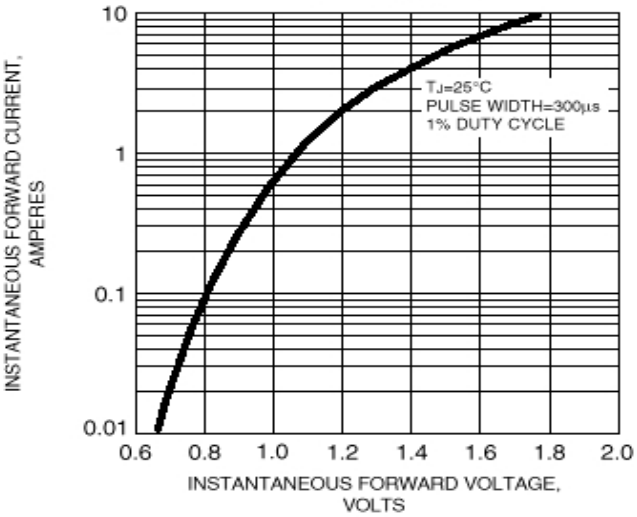
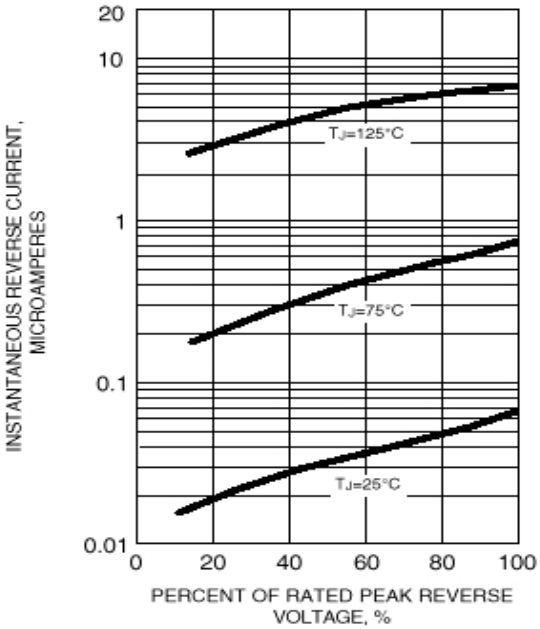


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



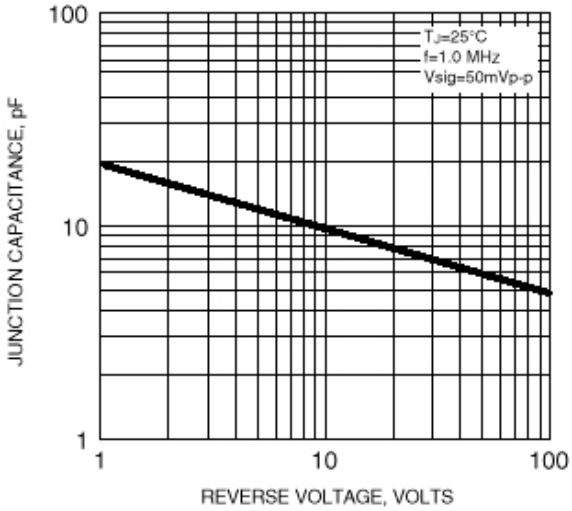
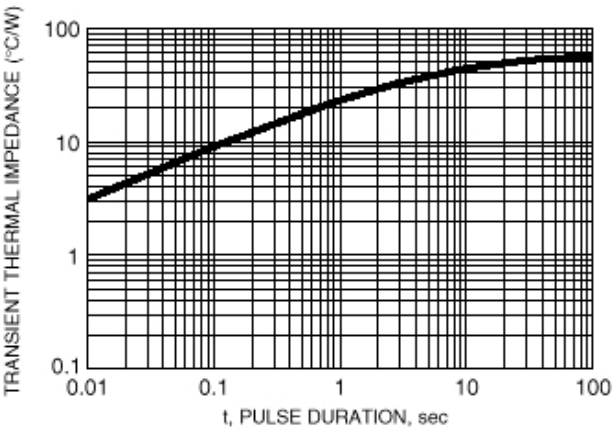


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE



[1]Rev.A1, 9-Apr-10