GR3A THRU GR3M

SURFACE MOUNT FAST SWITCHING RECTIFIER

VOLTAGE: 50 TO 1000V CURRENT: 3.0A



FEATURE

Ideal for surface mount pick and place applications

Low profile package

Built-in strain relief

High surge capability

High temperature soldering guaranteed

260 ℃/10sec/at terminals Glass passivated chip

Fast recovery time for high efficiency

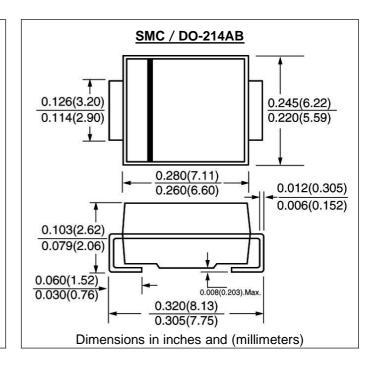
MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

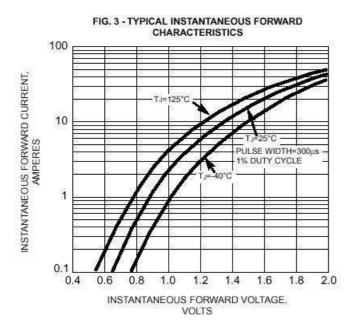
	SYMBOL	GR 3A	GR 3B	GR 3D	GR 3G	GR 3J	GR 3K	GR 3M	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8 ″ lead length at T _L =75 °C	If(av)	3.0							Α
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	Ifsm	100.0							А
Maximum Forward Voltage at rated forward current	Vf	1.3							V
Maximum DC Reverse Current Ta =25°C	lr 10.0						μА		
at rated DC blocking voltage Ta =125℃	350.0							μА	
Maximum Reverse Recovery Time (Note1)	Trr	150			250	500		nS	
Typical Junction Capacitance (Note 2)	Cj	60.0							pF
Typical Thermal Resistance (Note 3)	Rth(jl)	15.0							°C//W
Storage and Operating Junction Temperature	Tstg, Tj	-50 to +150							$^{\circ}$

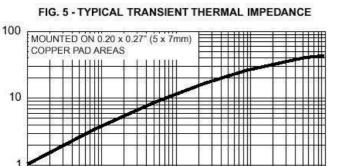
Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area

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RATINGS AND CHARACTERISTIC CURVES GR3A THRU GR3M





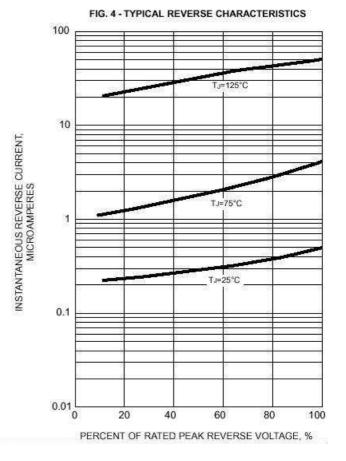
t, PULSE DURATION, sec

10

TRANSIENT THERMAL IMPEDANCE (°C/W)

0.01

0.1



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100