GU1A THRU GU1M

SURFACE MOUNT ULTRAFAST SWITCHING RECTIFIER

VOLTAGE: 50 to 1000V 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°C/10sec/at terminals Glass passivated chip

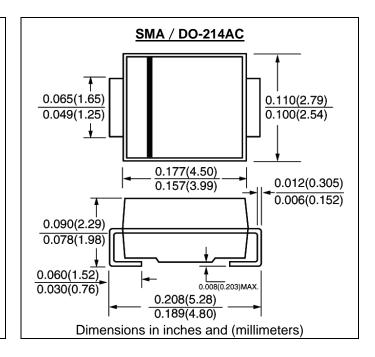
MECHANICAL DATA

Terminal: Solder plated, solderable per J-STD-002 Case: Molded with UL-94 class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Fast recovery time for high efficiency



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

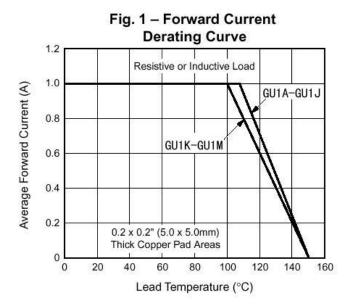
	SYMBOL	GU 1A	GU 1B	GU 1D	GU 1G	GU 1J	GU 1K	GU 1M	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length	If(av)	1.0							А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	Ifsm	30							А
Maximum Forward Voltage at rated forward current	Vf		1.0		1.4		1.7		>
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	lr	10 300						μ Α μ Α	
Maximum Reverse Recovery Time (Note1)	Trr	50				75			nS
Typical Junction Capacitance (Note 2)	Cj	15							pF
Typical Thermal Resistance (Note 3)	Rth(jl)	30							°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-50 to +150							$^{\circ}$

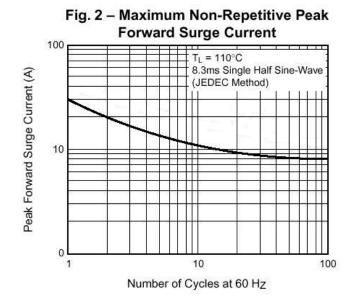
Note:

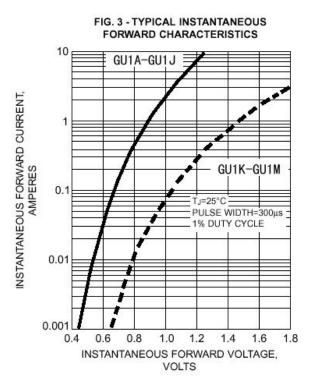
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area

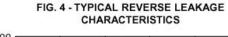
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RATINGS AND CHARACTERISTIC CURVES GU1A THRU GU1M









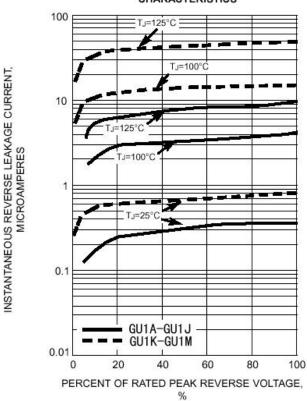
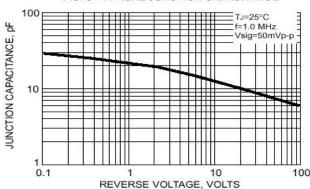


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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