# **GU2A-A THRU GU2M-A**

# SURFACE MOUNT FAST SWITCHING RECTIFIER

VOLTAGE: 50 TO 1000V CURRENT: 2.0A



#### **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

260 C/10sec/at terminals Glass passivated chip

Fast recovery time for high efficiency

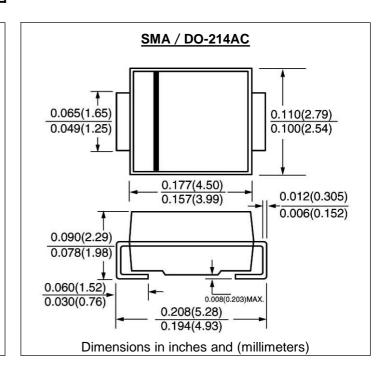
#### **MECHANICAL DATA**

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, date current by 20%)

	SYMBOL	GU	GU	GU	GU	GU	GU	GU	units
		2A-A	2B-A	2D-A	2G-A	2J-A	2K-A	2M-A	
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 at $T_L = 100^{\circ}C$	If(av)	2.0							Α
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	Ifsm	50.0							Α
Maximum Instantaneous Forward Voltage at rated forward current 2.0A	Vf		1.0		1.4		1.7		V
Maximum DC Reverse Current Ta =25°C	lr 10.0							μА	
at rated DC blocking voltage Ta =125℃	500.0							μА	
Maximum Reverse Recovery Time (Note1)	Trr	50 75						nS	
Typical Junction Capacitance (Note 2)	Cj	50.0							pF
Typical Thermal Resistance (Note 3)	<u>R(jl)</u>	20.0							°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-50 to +150							$^{\circ}$

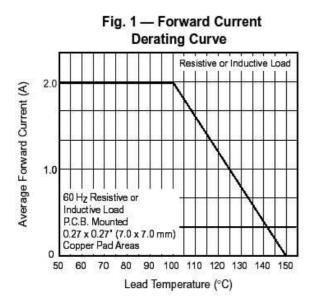
## Note:

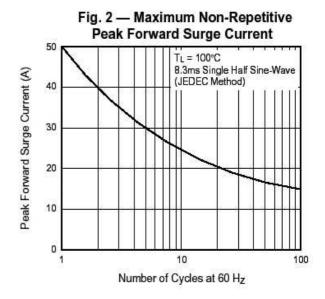
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area1

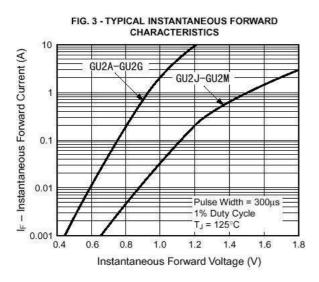
<sup>1</sup>Rev.A5 www.gulfsemi.com

#### RATINGS AND CHARACTERISTIC CURVES GU2A-A THRU GU2M-A

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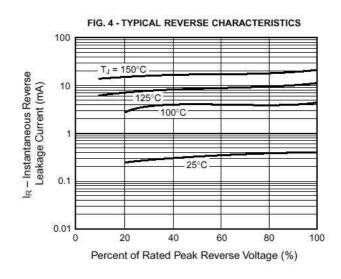
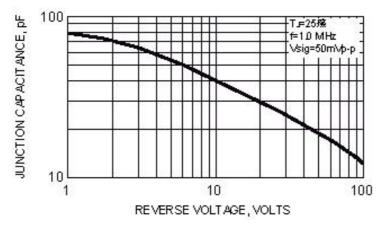


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



<sup>2</sup> Rev.A5 www.gulfsemi.com