## **GU2A THRU GU2M**

# 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

Li. I

High surge capability

High temperature soldering guaranteed

260 ℃/10sec/at terminals Glass passivated chip

Fast recovery time for high efficiency

#### **MECHANICAL DATA**

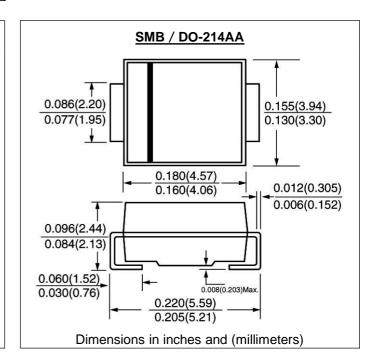
Terminal: Plated axial leads solderable per

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%)

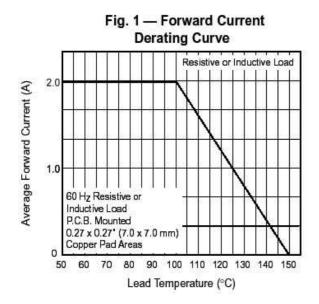
	SYMBOL	GU	GU	GU	GU	GU	GU	GU	units
		2A	2B	2D	2G	2J	2K	2M	uriits
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified at T <sub>L</sub> =100°C	If(av)	2.0							А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	Ifsm	50.0							А
Maximum Instantaneous Forward Voltage at rated forward current 2.0A	Vf	1.0 1.4			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							μA	
Maximum Reverse Recovery Time (Note1)	Trr	50			75		nS		
Typical Junction Capacitance (Note 2)	Cj	50.0						pF	
Typical Thermal Resistance (Note 3)	Rth(jl)	20.0						°C/W	
Storage and Operating Junction Temperature	Tstg, Tj	-50 to +150						$^{\circ}$	

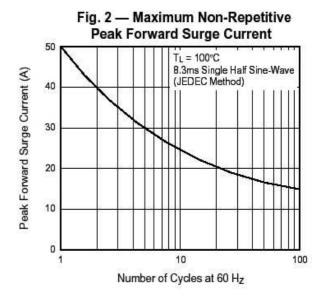
#### Note:

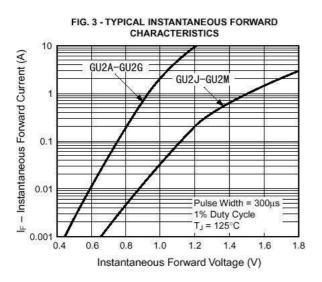
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to terminal mounted on  $5\times5mm$  copper pad area

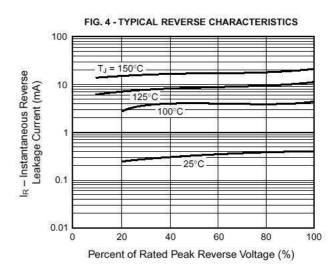
Rev.A5 www.gulfsemi.com

#### RATINGS AND CHARACTERISTIC CURVES GU2A THRU GU2M

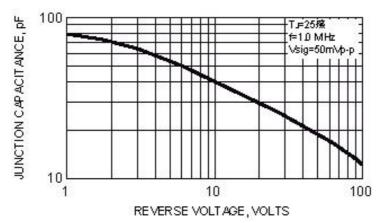












<sup>1</sup> Rev.A5 www.gulfsemi.com