GU3A THRU GU3M

SURFACE MOUNT FAST **ULTRAFAST RECTIFIER**

VOLTAGE: 50 TO 1000V **CURRENT: 3.0A**



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

Fast recovery time for high efficiency

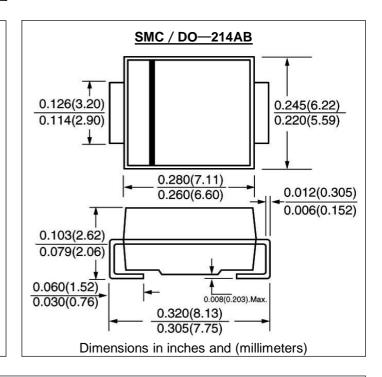
MECHANICAL DATA

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℃, unless otherwise stated, for capacitive load, derate current by 20%)

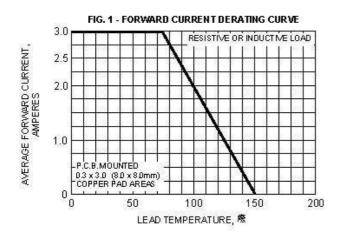
SYMBOL	GU 3A	GU 3B	GU 3D	GU 3G	GU 3J	GU 3K	GU 3M	units
Vrrm	50	100	200	400	600	800	1000	V
Vrms	35	70	140	280	420	560	700	V
Vdc	50	100	200	400	600	800	1000	V
If(av)	3.0						А	
Ifsm	100.0						Α	
Vf	1.0		1.4	1.7			V	
lr	10.0						μА	
"	500.0							μА
Trr	50				75			nS
Cj	75			50			pF	
R(jl)	15						°C/W	
Tstg, Tj	-50 to +150							$^{\circ}\!\mathbb{C}$
	Vrrm Vrms Vdc If(av) Ifsm Vf Ir Cj R(jl)	SYMBOL 3A Vrrm 50 Vrms 35 Vdc 50 If(av) Ifsm Vf Ir Trr Cj R(jl) R(jl)	SYMBOL 3A 3B Vrrm 50 100 Vrms 35 70 Vdc 50 100 If(av) Ifsm 1.0 Ir Trr 5 Cj 7 R(jl) 7	SYMBOL 3A 3B 3D Vrrm 50 100 200 Vrms 35 70 140 Vdc 50 100 200 If(av) If sm Vf 1.0 Ir 50 Cj 75 R(jl) 75	SYMBOL 3A 3B 3D 3G Vrrm 50 100 200 400 Vrms 35 70 140 280 Vdc 50 100 200 400 If(av) 3.0 Ifsm 100.0 Vf 1.0 1.4 Ir 500.0 Trr 50 Cj 75 R(jl) 15	SYMBOL 3A 3B 3D 3G 3J Vrrm 50 100 200 400 600 Vrms 35 70 140 280 420 Vdc 50 100 200 400 600 If(av) 3.0 Ifsm 100.0 Vf 1.0 1.4 Ir 500.0 Trr 50 Cj 75 R(jl) 15	SYMBOL 3A 3B 3D 3G 3J 3K Vrrm 50 100 200 400 600 800 Vrms 35 70 140 280 420 560 Vdc 50 100 200 400 600 800 If(av) 3.0 Ifsm 100.0 Vf 1.0 1.4 1.7 Ir 500.0 500.0 Trr 50 75 Cj 75 50 R(jl) 15	SYMBOL 3A 3B 3D 3G 3J 3K 3M Vrrm 50 100 200 400 600 800 1000 Vrms 35 70 140 280 420 560 700 Vdc 50 100 200 400 600 800 1000 If(av) 3.0 3.0 100.0 1.4 1.7 1.7 Ir 10.0 500.0 75 500.0 75 50 75 50 R(jl) 15

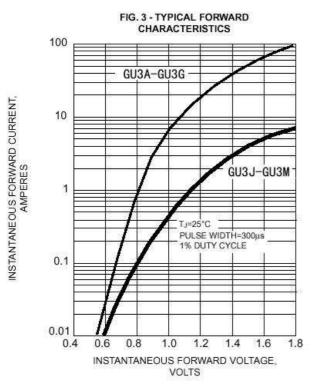
Note:

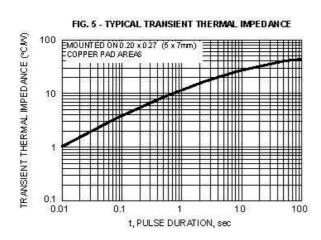
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area

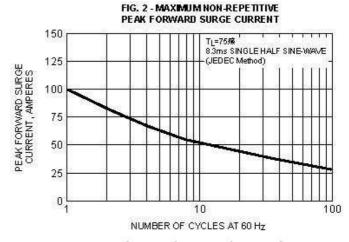
Rev.A5 www.gulfsemi.com

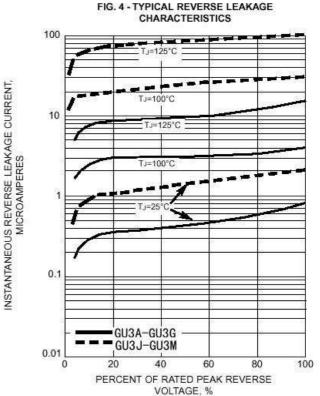
RATINGS AND CHARACTERISTIC CURVES GU3A THRU GU3M











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