MU3D

SURFACE MOUNT ULTRAFAST RECTIFIER

VOLTAGE: 200V CURRENT: 3.0A



FEATURE

Plastic package has Underwriters Laboratories Flammability Classification 94V-

Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes

Ultrafast recovery time for high efficiency

High surge capability

High temperature soldering guaranteed

260°C/10sec/at terminals Glass passivated chip

MECHANICAL DATA

Terminals: Solder plated, solderable per MIL-STD-750,

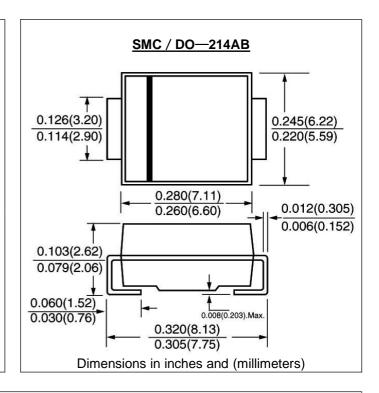
Method 2026

Case: JEDEC DO-214AB molded plastic body over

passivated chip

Polarity: Color band denotes cathode end

Weight: 0.007 ounce, 0.21 gram



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%)

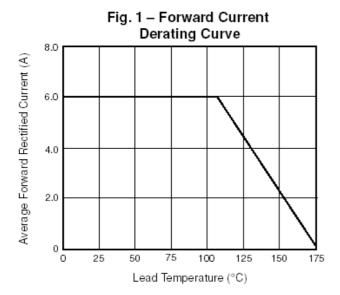
	SYMBO	MU3D	units
	L	1,103D	
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified T _L =140 °C	If(av)	3.0	А
Current 3/8 " lead length at : T _L =130 °C		4.0	
Peak Forward Surge Current 8.3ms single	Ifsm	125.0	Α
half sine- wave superimposed on rated load			
Maximum Instantaneous Forward Voltage at	Vf	0.875	V
rated forward current T _J =25°C If = 3.0A			
Maximum DC Reverse Current Ta =25°C	lr	5.0	μА
at rated DC blocking voltage Ta =150℃		150.0	μA
Maximum Reverse Recovery Time (Note1)	Trr	25	nS
Typical Junction Capacitance (Note 2)	Cj	80	pF
Typical Thermal Resistance, junction to lead	R(jl)	11	°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-50 to +175	$^{\circ}$

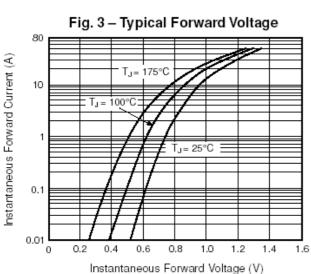
Note:

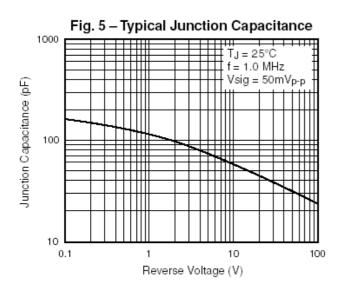
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

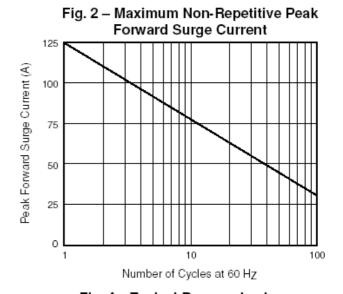
Rev.A1 www.gulfsemi.com

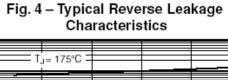
RATINGS AND CHARACTERISTIC CURVES MU3D

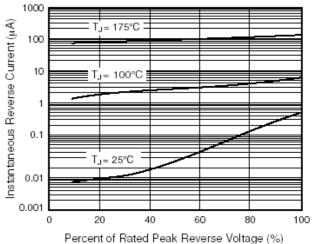












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