GUF15A THRU GUF15M

SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER VOLTAGE:50 TO 1000V CURRENT: 1.5A



FEATURE

High temperature metallurgically bonded construction Sintered glass cavity free junction Capability of meeting environmental standard of MIL-S-19500 High temperature soldering guaranteed

 $350^{\circ}C$ /10sec/0.375"lead length at 5 lbs tension Operate at Ta =55°C with no thermal run away Typical Ir<0.2 μA

Low power loss, high efficient

MECHANICAL DATA

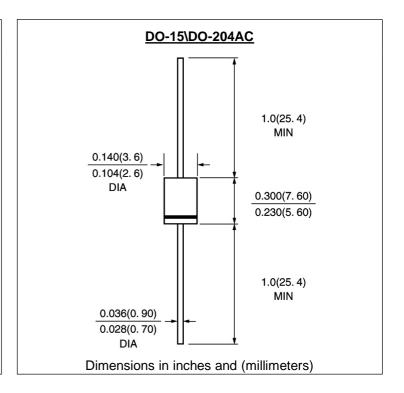
Terminal: Plated axial leads solderable per MIL-STD 202E,method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

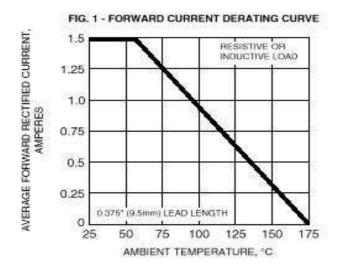
	SYMBOL	GUF 15A	GUF 15B	GUF 15D	GUF 15F	GUF 15G	GUF 15J	GUF 15K	GUF 15M	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.5								А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50							А	
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.1 1.4				1.7			V	
Maximum full load reverse current full cycle average at 55°C Ambient	Ir(av)	100								μΑ
Maximum DC Reverse Current Ta =25°C	lr 5							μΑ		
at rated DC blocking voltage Ta =125°C		100						μΑ		
Typical Reverse Recovery Time (Note 1)	Trr	50					75			nS
Typical Junction Capacitance (Note 2)	Cj	40 50						pF		
Typical Thermal Resistance (Note 3)	R(ja)	20							°C /W	
Storage and Operating Temperature Range	Tstg, Tj	-65 to +175								°C

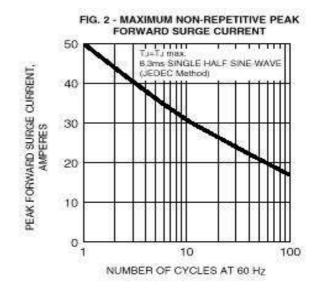
Note:

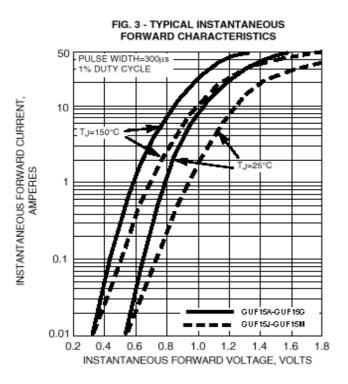
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

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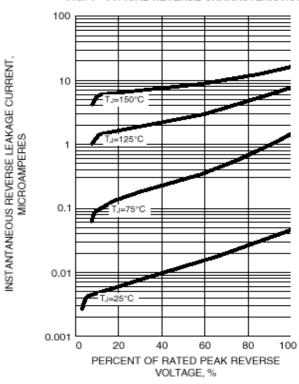
RATINGS AND CHARACTERISTIC CURVES GUF15A THRU GUF15M

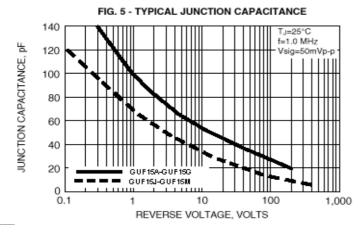


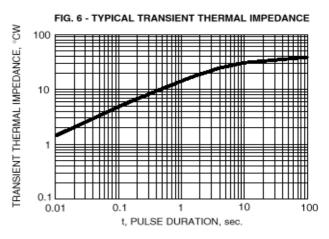












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