FE1.5G

SINTERED GLASS JUNCTION ULTRAFAST AVALANCHE RECTIFIER

VOLTAGE: 400V CURRENT: 1.5A



FEATURE

Glass passivated Hermetically sealed package Low reverse current Soft recovery characteristics

MECHANICAL DATA

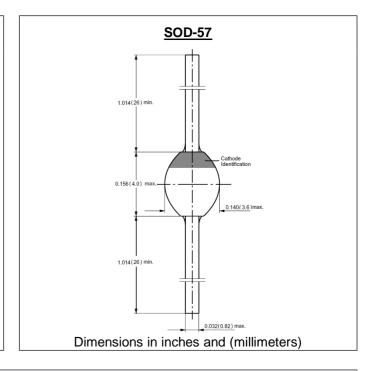
Case: SOD-57 sintered glass case

Terminal: Plated axial leads solderable per

MIL-STD 202E, method 208C

Polarity: color band denotes cathode end

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

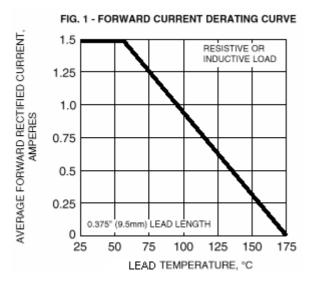
	SYMBOL	FE1.5G	units	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	V	
Maximum RMS Voltage	V _{RMS}	280	V	
Maximum DC blocking Voltage	V _{DC}	400	V	
Maximum Average Forward Rectified Current 3/8"lea length at TL=55℃	d I _{FAV}	1.5	А	
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load	- I _{FSM}	50	Α	
Maximum Forward Voltage at rated Forward Currer and 25 $^{\circ}\!$	Nt V _F	1.6	V	
Maximum DC Reverse Current at V_{DC} =400V and 25 $^{\circ}\mathrm{C}$	I _R	5.0	μΑ	
Maximum DC Reverse Current at V_{DC} =450V and 25 $^{\circ}\text{C}$	I _R	5.0	μΑ	
Maximum DC Reverse Current at V_{DC} =500V and 25 $^{\circ}{\rm C}$	I _R	25.0	μΑ	
Maximum DC Reverse Current at V _{DC} =400V and 100°C	l _R	100	μΑ	
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS	
Typical Junction Capacitance (Note 2)	Cj	35.0	pF	
Typical Thermal Resistance (Note 3)	Rth(ja)	45.0	°C/W	
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	$^{\circ}$	

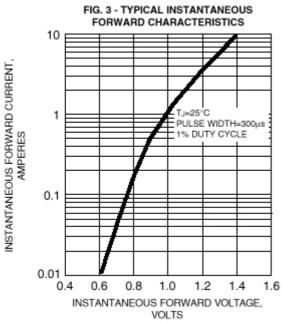
Note:

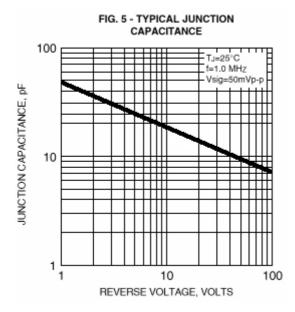
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

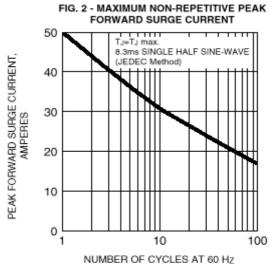
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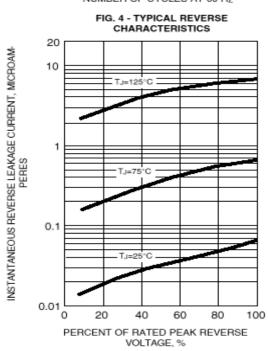
RATINGS AND CHARACTERISTIC CURVES FE1.5G











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