25/02/13 V1.0

Glass Passivated Rectifier multicomp



Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Specifications:

Cases	: Molded plastic
Lead	: Axial leads, solderable per MIL-STD- 202, Method 208 guaranteed
Polarity	: Colour band denotes cathode end
High temperature soldering	: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
Weight	: 0.34g

Max. Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	Value	Units
Max. Recurrent Peak Reverse Voltage	Vrrm	1,000	V
Max. RMS Voltage	Vrms	700	V
Max. DC Blocking Voltage	Vdc	1,000	V
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length @TA = 50°C	l(av)	1	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	Ifsm	30	A
Max. Instantaneous Forward Voltage @ 1A	VF	1	V
Max. DC Reverse Current @ Ta=25°C at Rated DC Blocking Voltage @ Ta=125°C	lr	5 100	uA uA
Typical Junction Capacitance (Note 1)	Cj	10	pF
Typical Thermal Resistance (Note 2)	Reja	65	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150	°C

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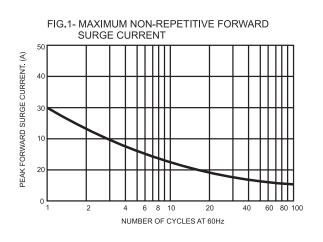
Note : 1. Measured at 1MHz and Applied Reverse Voltage of 4V DC

2. Mount on Cu-Pad Size 5mm x 5mm on PCB.



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Ratings and Characteristic Curves



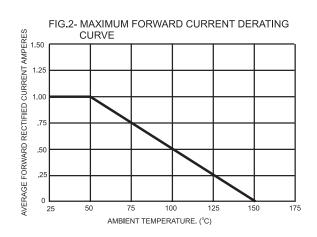


FIG.3- TYPICAL JUNCTION CAPACITANCE

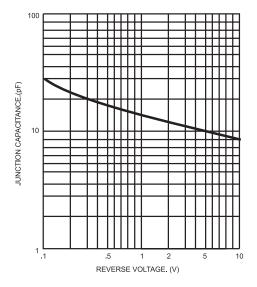
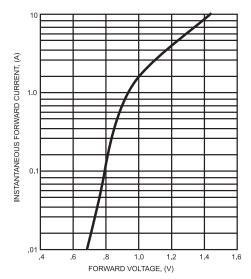
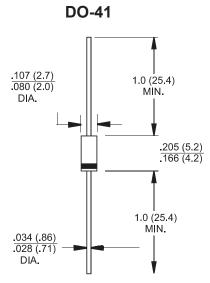


FIG.4- TYPICAL FORWARD CHARACTERISTICS



multicomp

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Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Standard, 1A, 1,000V	1N4007G

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