

10A05G THRU 10A10G

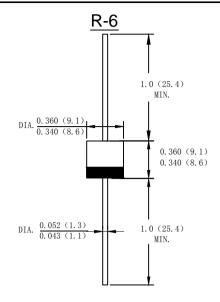
10.0 AMPS. Glass Passivated Rectifiers

Features

- · Low forward voltage drop
- · High current capability
- · High reliability
- · High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic R-6
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- · Polarity: Color band dentes cathode end
- Mounting Position: AnyMaking: Type Number
- · Lead Free: For RoHS/Lead Free Version



Dimensions in inches and (millimeters)

Maximum 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%

Type Number	SYMBOL	10A05G	10A1G	10A2G	10A4G	10A6G	10A8G	10A10G	Unit
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length @T _L =100°C	IF(AV)	10.0							А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İfsm	250							Α
I ² t Rating for Fusing (t < 8.3ms)	l²t	259.375							A ² s
Forward Voltage @IF=10.0A	V _{FM}	1.1							V
Peak Reverse Current @T _A =25°C	5.0								uA
At Rated DC Blocking Voltage @T _A =125°C	l _R	100							
Typical Junction Capacitance (Note 1)	Cj	150							pF
Typical Thermal Resistance Junction to Ambient(Note 2)	RөJA	6							°C/W
Operating Temperature Range	Tj	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

Note:1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2. Leads maintained at ambient temperature at a distance of 9.5mm from the case

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FIG. 1 – FORWARD CURRENT DERATING CURVE

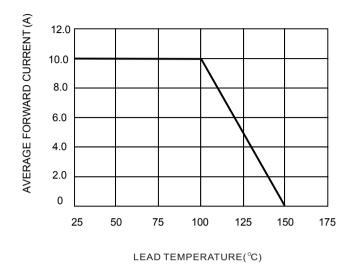


FIG.2-TYPICAL FORWARD CHARACTERISTICS

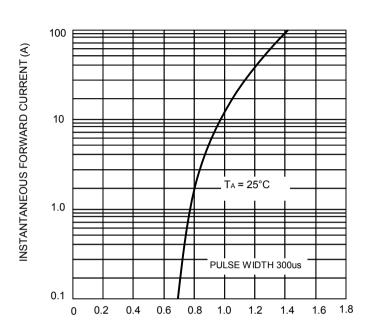
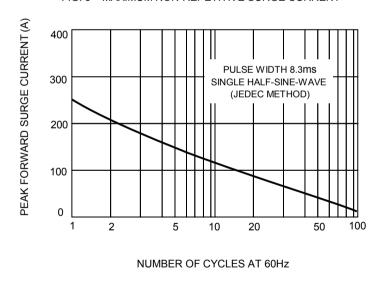
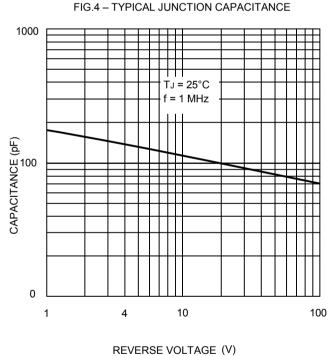


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT



INSTANTANEOUS FORWARD VOLTAGE (V)





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