

Glass Passivated Rectifier Diodes

V_{RRM} - 50 Volts to 1000 Volts, 6A

multicompPRO

**RoHS
Compliant**



Features

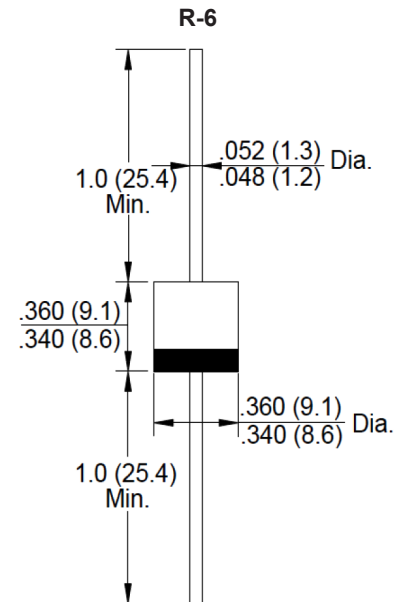
- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0
- Lead free
- Case style: R-6 molded plastic

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%.



Dimensions : Inches (Millimetres)

Characteristics	Symbol	P600AG	P600DG	P600GG	P600KG	P600MG	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	200	400	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	140	280	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	200	400	800	1000	
Maximum Average Forward Rectified Current @ T _A = 55°C	I _(AV)	6					A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	250					A
I ² t Rating for Fusing (t<8.3mS)	I ² t	259					A ² s
Peak Forward Voltage at 6A DC (Note 1)	V _F	1.1					V
Max. DC Reverse Current @ T _J = 25°C	I _R	10					μA
Rated DC Blocking Voltage @ T _J = 125°C		100					
Typical Junction Capacitance (Note 2)	C _J	100					pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	10					°C/W
Operating Junction Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}						

Notes:

1. 300 μs pulse width, 2%duty cycle
2. Measured at 1 MHz and applied reverse voltage of 4V DC
3. The typical data above is for reference only.

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Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

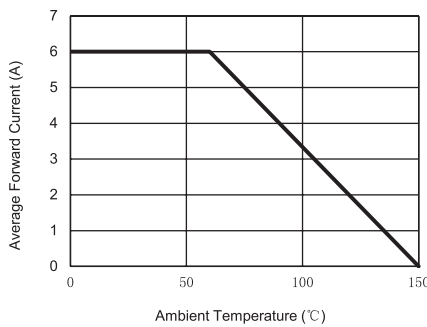


Fig. 2 - Maximum Non-Repetitive Surge Current

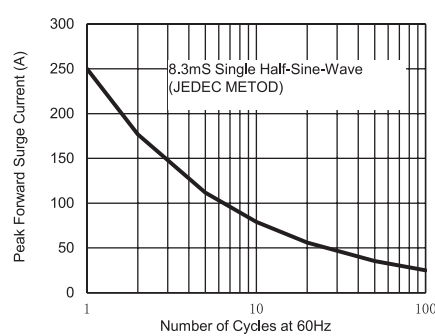


Fig. 3 - Typical Reverse Characteristics

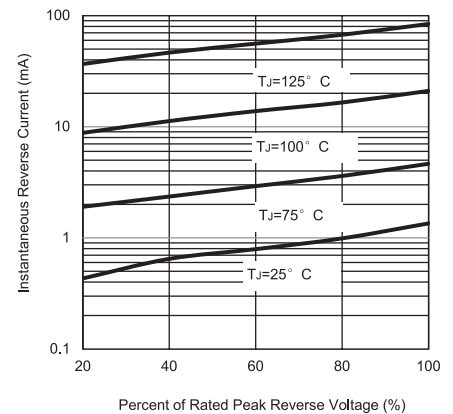


Fig. 4 - Typical Forward Characteristics

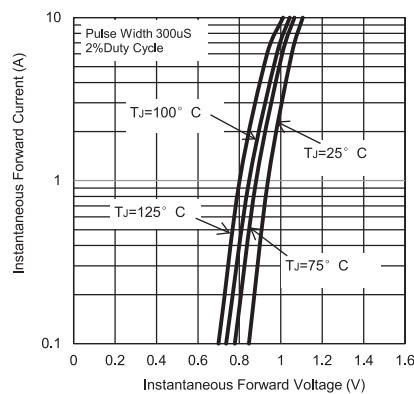
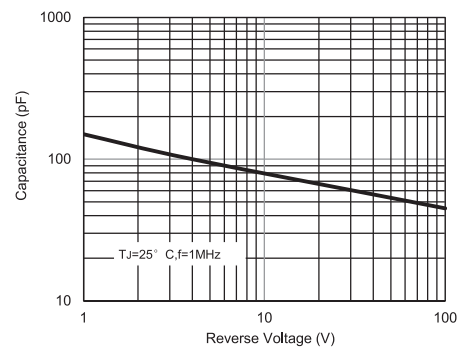


Fig. 5 - Typical Junction Capacitance



Part Number Table

Description	Part Number
Rectifier Diode, 50V, 6A, R-6	P600AG
Rectifier Diode, 200V, 6A, R-6	P600DG
Rectifier Diode, 400V, 6A, R-6	P600GG
Rectifier Diode, 800V, 6A, R-6	P600KG
Rectifier Diode, 1kV, 6A, R-6	P600MG

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