



P600AG THRU P600MG

Glass Passivated Rectifiers Reverse Volta

Reverse Voltage - 50 to 1000Volts Forward Current - 6.0 Amperes

Features

- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0
- AEC-Q101 qualified

Mechanical Data

- Case: JEDEC R-6 molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

Applications

 For use in low voltage, high frequency inverters, polarity protection applications

Package Outline Dimensions in Inches (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%.

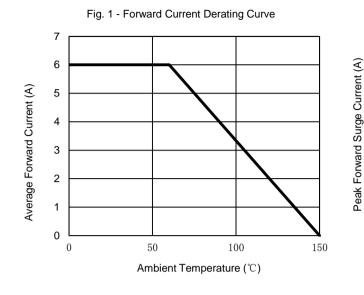
Characteristics	Symbol	P600AG	P600BG	P600DG	P600GG	P600JG	P600KG	P600MG	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=60 $^{\circ}$ C	I(AV)	6.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	200							Α
Superimposed on Rated Load (JEDEC Method)	IF5M	IFSM 200						А	
I ² t Rating for Fusing (t<8.3mS)	l ² t	166							A^2s
Peak Forward Voltage at 6.0A DC (Note1)	VF	1.1						V	
Maximum DC Reverse Current @TJ=25℃	lo.	10 100							μΑ
at Rated DC Blocking Voltage @TJ=125℃	l _R								
Typical Junction Capacitance (Note 2)	CJ	100							pF
Typical Thermal Resistance Junction to Ambient	Reja	10							°C/W
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

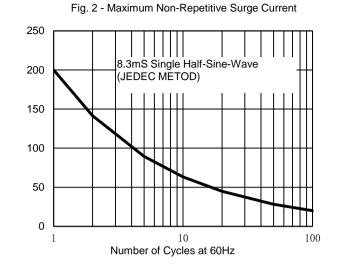
Notes: 1. 300uS pulse width, 2%duty cycle.

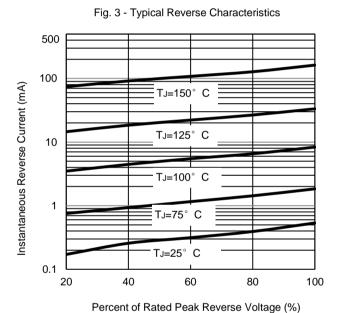
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only .

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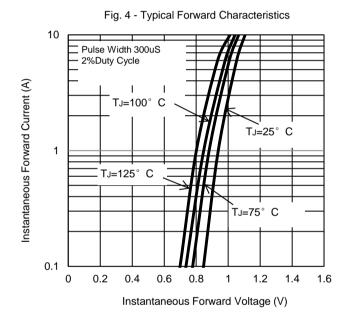
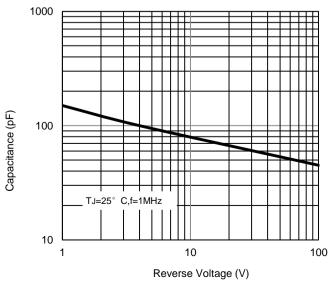


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

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