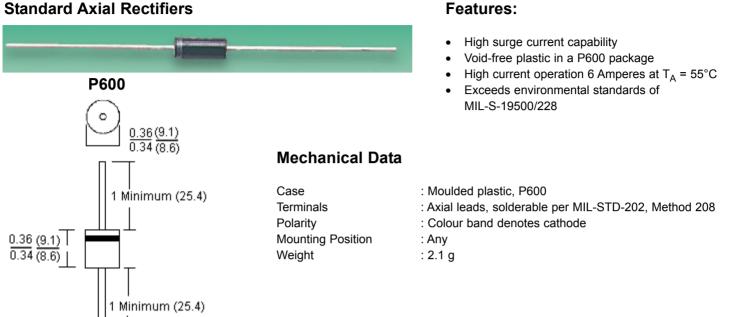
6A Power Diodes

P600 Series

Standard Axial Rectifiers





Dimensions : Inches (Millimetres)

0.052 (1.3) 0.048 (1.2)

Maximum Ratings and Electrical Characteristics

At T_A = 25°C unless otherwise specified. Single phase, half-wave, 60 Hz, resistive or inductive load All values except maximum RMS voltage are registered JEDEC parameters

	P600A	P600D	P600G	P600K	P600M	Units	
Maximum Recurrent Peak Reverse Voltage	50	200	400	800	1,000		
Maximum RMS Voltage	35	140	280	560	700	V	
Maximum dc Blocking Voltage	50	200	400	800	1,000		
Maximum Average Forward Rectified Current T _A = 55°C	6				A		
Maximum Overload Surge Current at 1 Cycle (Note 1)	400						
Maximum Forward Voltage at 6 A dc	1				V		
Maximum dc Reverse Current at T _A = 25°C	10				μA		
Rated dc Blocking Voltage at T _A = 100°C	1				mA dc		
Typical Junction Capacitance (Note 3) CJ	150				pF		
Typical Thermal Resistance (Note 2) RθJA Typical Thermal Resistance (Note 2) RθJL	20 4				°C / W		
Operating Temperature Range	EE to 150			°C			
Storage Temperature Range	-55 to 150						

Notes

1. Peak forward surge current, per 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)

2. Thermal resistance from junction to ambient and from junction to lead at 0.375 inches (9.5 mm) lead length PCB mounted with 1.1

× 1.1 inches (30 × 30 mm) copper pads

3. Measured at 1 MHz and applied reverse voltage of 4 volts

www.element14.com www.farnell.com www.newark.com

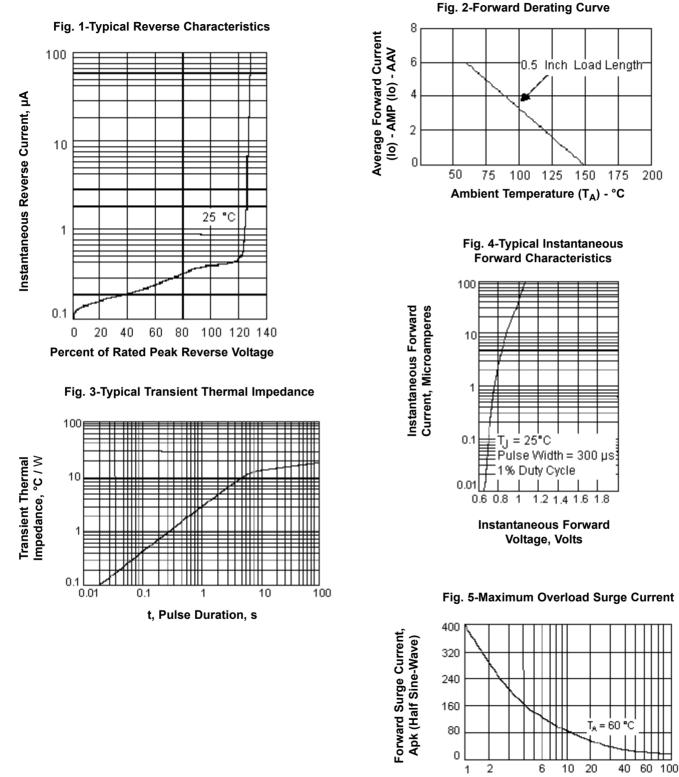


6A Power Diodes

P600 Series



Rating and Characteristic Curves



Number of Cycles at 60 Hz



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P600 Series



Specification Table

V _{RRM} Maximum (V)	l _f Average (A)	l _{fsm} (A)	Plastic Package	Part Number
1,000	6	400	P600	P600M
400				P600G
800				P600K
50				P600A
200				P600D

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