

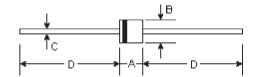
P600A THRU P600M

GENERAL PURPOSE PLASTIC RECTIFIER
Reverse Voltage - 50 to 1000 Volts
Forward Current - 6.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High forward current capability
- Construction utilizes void-free molded plastic technique
- High surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3Kg) tension





Mechanical Data

• Case: Void-free molded plastic body

 Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026

• Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.074 ounce, 2.1 grams

DIMENSIONS											
DIM	inches		m	Note							
	Min.	Max.	Min.	Max.	Note						
Α	0.339	0.358	8.6	9.1							
В	0.339	0.358	8.6	9.1	ф						
С	0.047	0.052	1.2	1.3	ф						
D	1.000	1	25.40	-							

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	P600A	P600B	P600D	P600G	P600J	P600K	P600M	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at T_=60 $^{\circ}$ C, 0.375" (9.5mm) lead length (Fig 1) T_=60 $^{\circ}$ C, 0.125" (3.18mm) lead length (Fig 2)	I _(AV)	6.0 22.0							Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	400.0							Amps
Maximum instantaneous forward voltage at 6.0A 100A	V _F	0.90 1.0 1.30 1.4							Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25^{\circ}C$	I _R	5.0 1.0							μA mA
Typical reverse recovery time (Note 1)	T _{rr}	2.5							μS
Typical junction capacitance (Note 2)	C	150.0							ρF
Typical thermal resistance (Note 3)	R _{⊕JA} R _{⊕JL}	20.0 4.0							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-50 to +150						°C	

Notes:

- (1) Reverse recovery test conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts
- (3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted with 1.1X1.1" (30X30mm) copper pads

RATINGS AND CHARACTERISTIC CURVES

