

6.0A STANDARD DIODE

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

Case: P-600, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band
Weight: 2.1 grams (approx.)
Mounting Position: Any
Marking: Type Number

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4

P-600				
Dim	Min	Max		
Α	25.4	_		
В	8.60	9.10		
С	1.20	1.30		
D	8.60	9.10		
All Dimensions in mm				

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	P600A	P600B	P600D	P600G	P600J	P600K	P600M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 60°C	lo				6.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM				400				А
Forward Voltage @I _F = 6.0A	VFM	1.0			V				
	lкм				5.0 1.0				μA mA
Typical Junction Capacitance (Note 2)	Cj	150			pF				
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}$ JA				20				°C/W
Operating Temperature Range	Tj			_	50 to +15)			°C
Storage Temperature Range	Тsтg			-	50 to +15)			°C

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Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

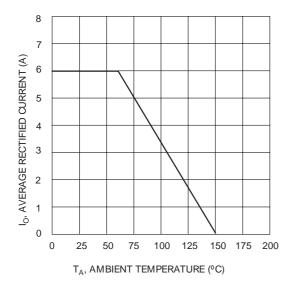


Fig. 1 Forward Current Derating Curve

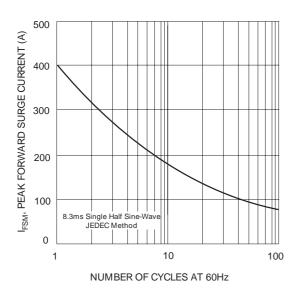


Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current

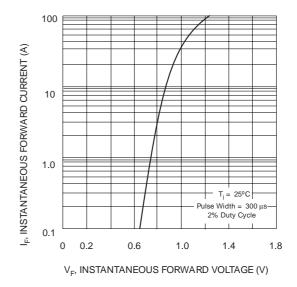


Fig. 2, Typical Forward Characteristics

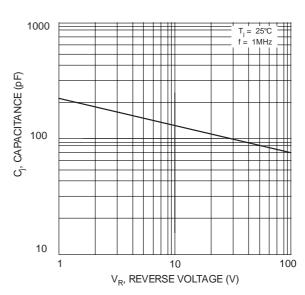
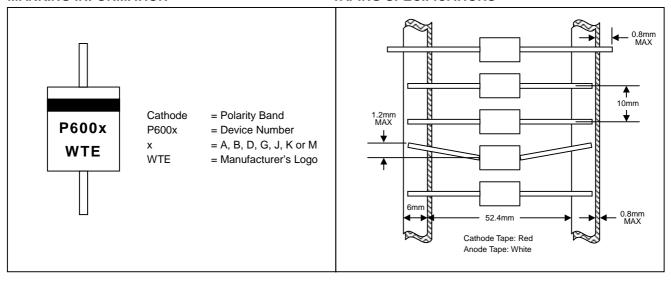


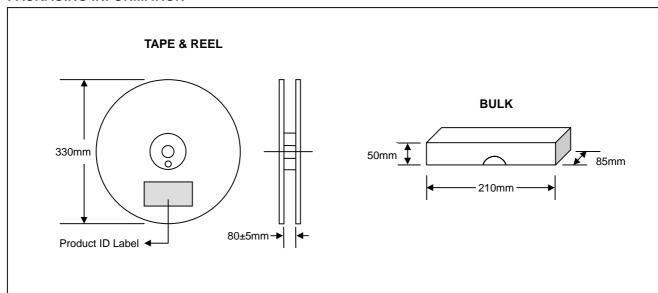
Fig. 4 Typical Junction Capacitance

MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	800	370 x 370 x 420	4,000	12.0
BULK	210 x 85 x 50	250	500 x 255 x 275	7,000	17.0

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

2. Components are packed in accordance with EIA standard RS-296-E.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
P600A-T3	P-600	800/Tape & Reel		
P600A	P-600	250 Units/Box		
P600B-T3	P-600	800/Tape & Reel		
P600B	P-600	250 Units/Box		
P600D-T3	P-600	800/Tape & Reel		
P600D	P-600	250 Units/Box		
P600G-T3	P-600	800/Tape & Reel		
P600G	P-600	250 Units/Box		
P600J-T3	P-600	800/Tape & Reel		
P600J	P-600	250 Units/Box		
P600K-T3	P-600	800/Tape & Reel		
P600K	P-600	250 Units/Box		
P600M-T3	P-600	800/Tape & Reel		
P600M	P-600	250 Units/Box		

- 1. Products listed in **bold** are WTE **Preferred** devices.
- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, P600A-T3-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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