



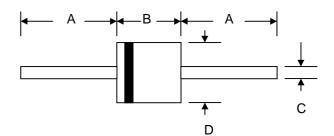
# **10A STANDARD DIODE**

#### 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					

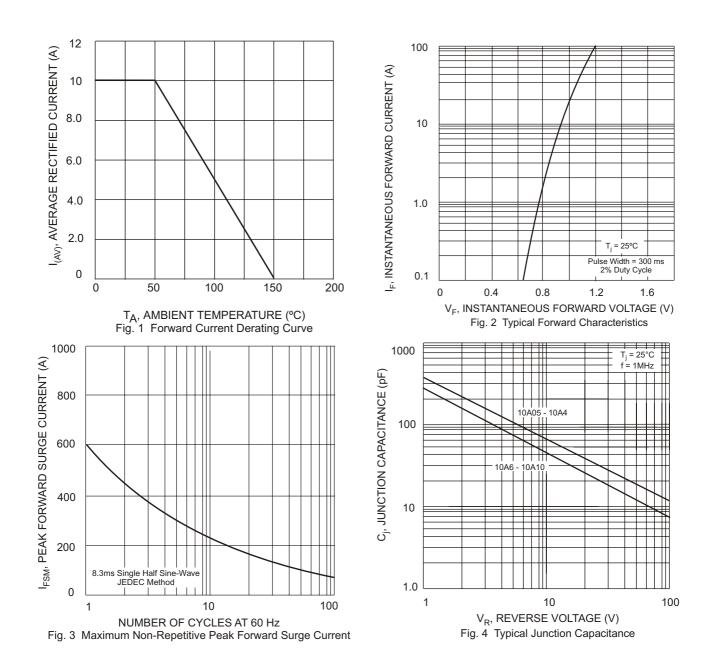
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

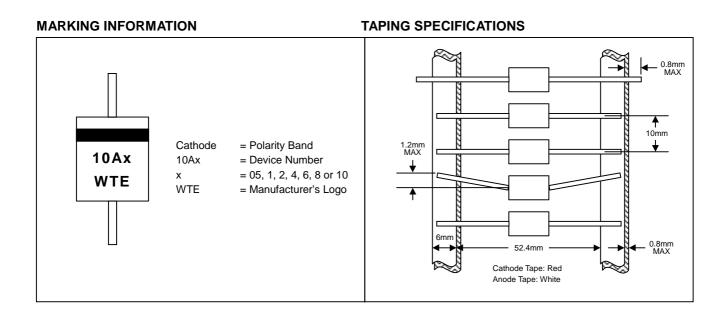
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	10A05	10A1	10A2	10A4	10A6	10A8	10A10	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) $@T_A = 50^{\circ}C$	lo	10			A				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	600			A				
Forward Voltage @I <sub>F</sub> = 10A	Vfm	1.0			V				
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 100			μA				
Typical Junction Capacitance (Note 2)	Cj	150 80			pF				
Typical Thermal Resistance Junction to Ambient (Note 1)	R∂JA	10			°C/W				
Operating Temperature Range	Tj	-50 to +150			°C				
Storage Temperature Range	Tstg	-50 to +150			°C				

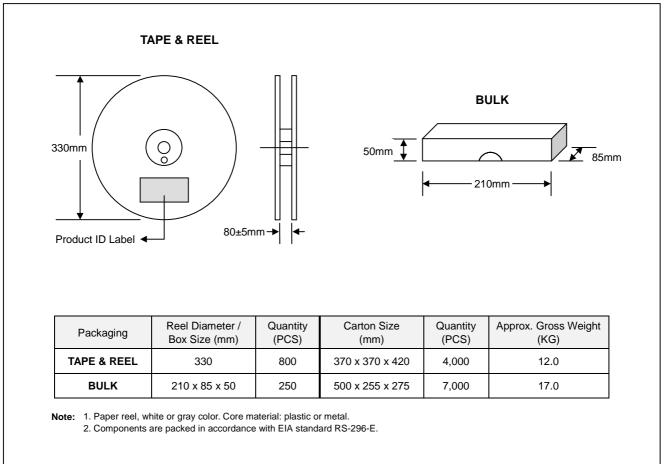
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

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





### PACKAGING INFORMATION



Product No.	Package Type	Shipping Quantity			
10A05-T3	P-600	800/Tape & Reel			
10A05	P-600	250 Units/Box			
10A1-T3	P-600	800/Tape & Reel			
10A1	P-600	250 Units/Box			
10A2-T3	P-600	800/Tape & Reel			
10A2	P-600	250 Units/Box			
10A4-T3	P-600	800/Tape & Reel			
10A4	P-600	250 Units/Box			
10A6-T3	P-600	800/Tape & Reel			
10A6	P-600	250 Units/Box			
10A8-T3	P-600	800/Tape & Reel			
10A8	P-600	250 Units/Box			
10A10-T3	P-600	800/Tape & Reel			
10A10	P-600	250 Units/Box			

1. Products listed in **bold** are WTE **Preferred** devices.

2. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

3. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 10A05-T3-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.