

# **10A STANDARD DIODE**

D

### **Features**

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

# A B A A C

### **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

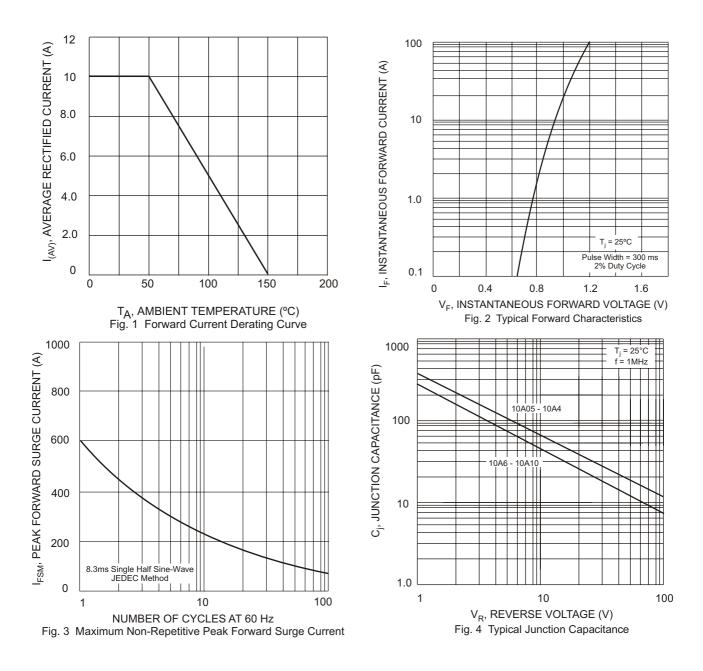
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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 <sub>A</sub> = 50°C	lo	10				А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	600				Α			
Forward Voltage @I <sub>F</sub> = 10A	VFM	1.0			V				
	lгм	10 100			μΑ				
Typical Junction Capacitance (Note 2)	Cj		1	50			80		pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}$ JA	10			°C/W				
Operating Temperature Range	Tj	-50 to +150			°C				
Storage Temperature Range	Тѕтс	-50 to +150			°C				

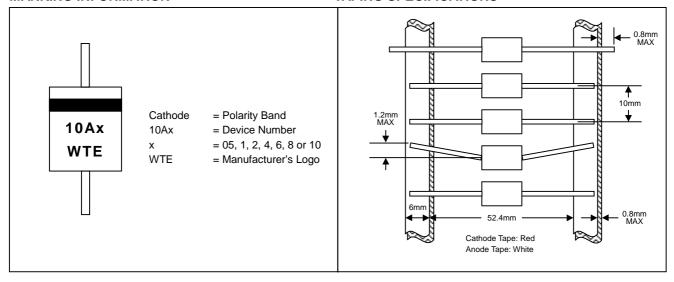
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

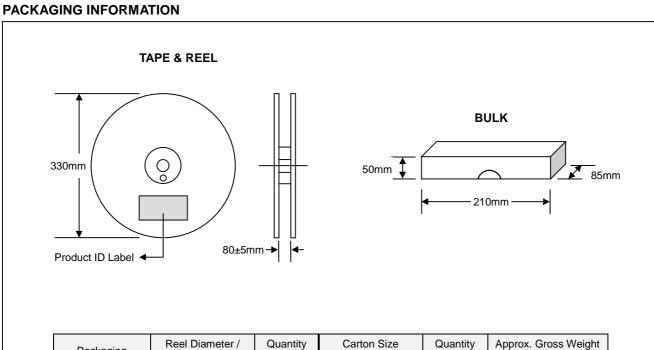
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



### **MARKING INFORMATION**

### **TAPING SPECIFICATIONS**





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		
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.
- 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, 10A05-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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