

# 10A05 - 10A10

10A Axial Leaded Standard Diode

## **Features**

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

# 

### R-6 Dim Min Max 25.4 Α В 9.10 8.60 С 1.20 1.30 D 8.60 9.10 All Dimensions in mm

# **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

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

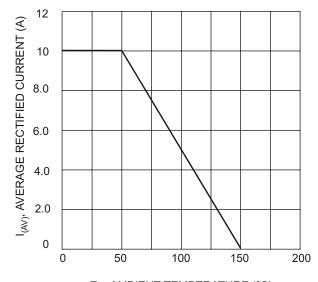
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	lгм	10 100							μΑ
Typical Junction Capacitance (Note 2)	Cj	150 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

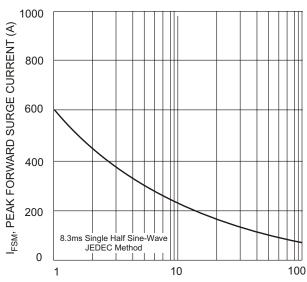
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

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





T<sub>A</sub>, AMBIENT TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current

