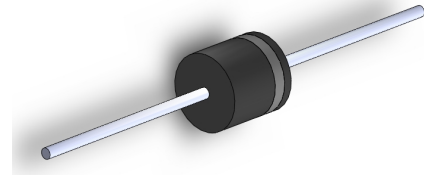


**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 10.0 A**

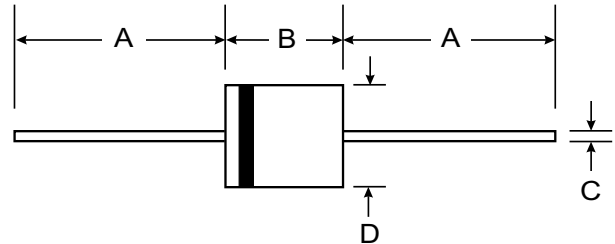


### Features

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

### Mechanical Data

- Case: R-6,
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Mounting Position: Any
- Marking: Type Number
- Weight: 2.1 grams (approx.)



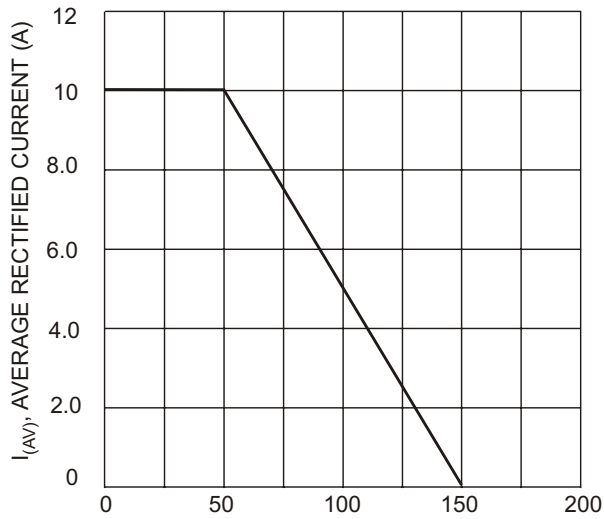
R-6		
Dim	Min	Max
A	25.4	—
B	8.6	9.1
C	1.2	1.3
All Dimensions in mm		

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

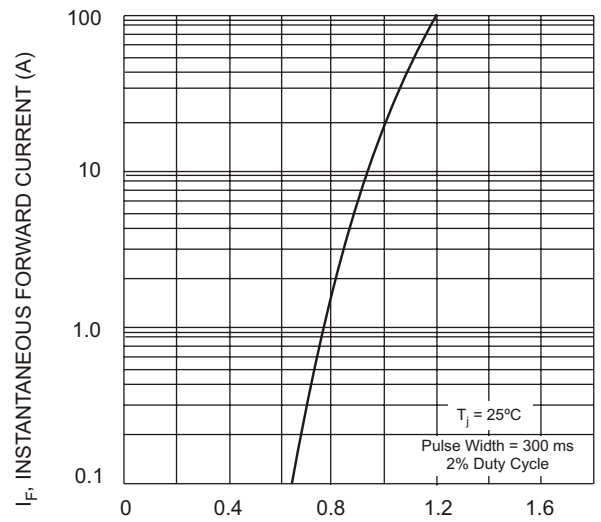
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	10A05	10A1	10A2	10A4	10A6	10A8	10A10	Unit	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>								V	
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000		
DC Blocking Voltage	V <sub>R</sub>									
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 1) <span style="float: right;">@T<sub>A</sub> = 50°C</span>	I <sub>O</sub>	10							A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	600							A	
Forward Voltage <span style="float: right;">@I<sub>F</sub> = 10A</span>	V <sub>FM</sub>	1.0							V	
Peak Reverse Current <span style="float: right;">@T<sub>A</sub> = 25°C</span> At Rated DC Blocking Voltage <span style="float: right;">@T<sub>A</sub> = 100°C</span>	I <sub>RM</sub>	10 100							μA	
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	150				80				pF
Typical Thermal Resistance Junction to Ambient (Note 1)	R <sub>θJA</sub>	10							°C/W	
Operating Temperature Range	T <sub>j</sub>	-50 to +150							°C	
Storage Temperature Range	T <sub>STG</sub>	-50 to +150							°C	

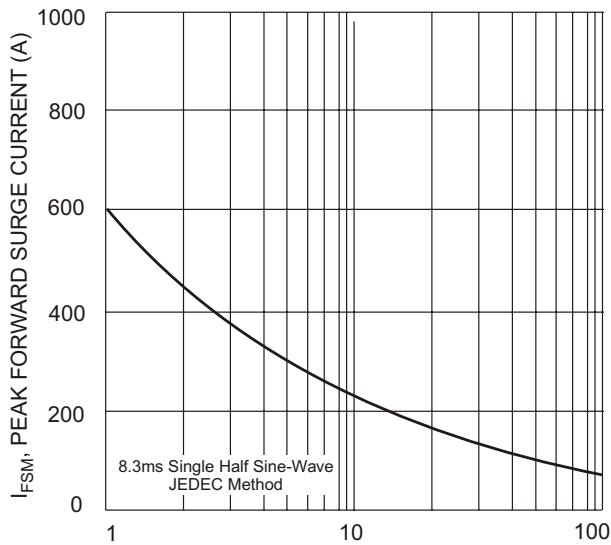
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case  
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



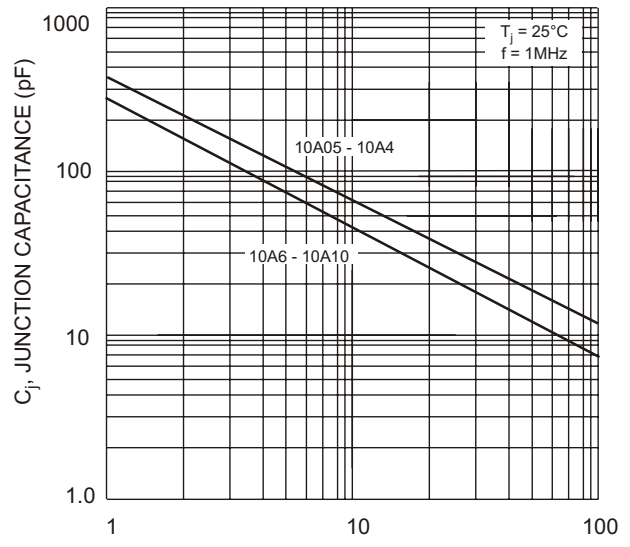
$T_A$ , AMBIENT TEMPERATURE (°C)  
Fig. 1 Forward Current Derating Curve



$V_F$ , INSTANTANEOUS FORWARD VOLTAGE (V)  
Fig. 2 Typical Forward Characteristics



$I_{FSM}$ , PEAK FORWARD SURGE CURRENT (A)  
Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current



$V_R$ , REVERSE VOLTAGE (V)  
Fig. 4 Typical Junction Capacitance