

# SUPER-FAST RECOVERY RECTIFIERS

<b>Features</b>	<p>Ultrafast 35 Nanosecond Recovery Time</p> <p>175° C Operating Junction Temperature</p> <p>Popular TO-220AC ITO-220AC Package</p> <p>Epoxy Meets UL94 ,V0 @ 1/8"</p> <p>High Temperature Glass Passivated Junction</p> <p>Low Forward Voltage</p> <p>Low Leakage Current</p> <p>Reverse Voltage to 600 Volts</p> <p>Pb-Free Packages are Available</p>
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**Typical Reference Data**

**VRRM= 200V**  
**IF(AV)= 10A**

**VRRM= 400V**  
**IF(AV)= 10A**

**VRRM= 600V**  
**IF(AV)=10A**

<b>Mechanical Characteristics</b>	<p>Case: Epoxy, Molded</p> <p>Weight: 1.9 grams (approximately)</p> <p>Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable</p> <p>Lead Temperature for Soldering Purposes: 260° C Max. for 10 Seconds</p> <p>Shipped 50 units per plastic tube</p>
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**MAXIMUM RATINGS**

Rating	Symbol	1020	1040	1060	Unit
Peak Repetitive Reverse Voltage	VRRM	200	400	600	V
Working Peak Reverse Voltage	VRM				
DC Blocking Voltage	VR				
Average Rectified Forward Current Total Device, (Rated VR), TC = 150	IF(AV)	10			A
Peak Repetitive Forward Current (Rated VR, Square Wave, 20 kHz), TC = 150	IFM	5			A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	IFSM	125			A
Operating Junction Temperature and Storage Temperature TJ, Tstg		- 40 to +175			

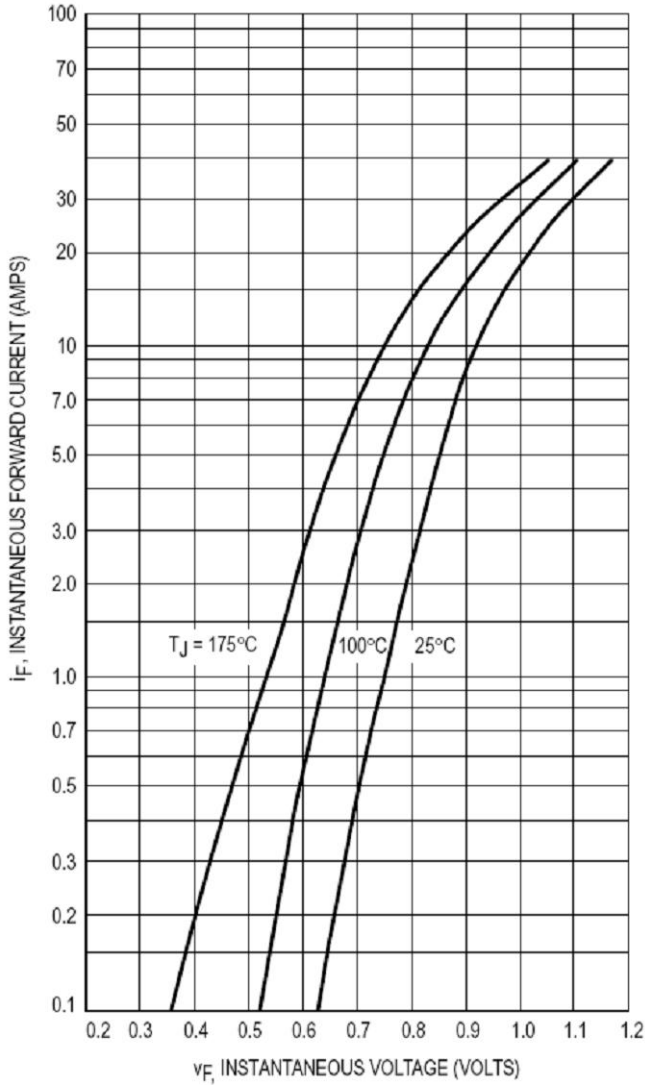
**THERMAL CHARACTERISTICS( Per Diode Leg)**

Maximum Thermal Resistance, Junction to Case	R <sub>JC</sub>	3.0	2.0	W
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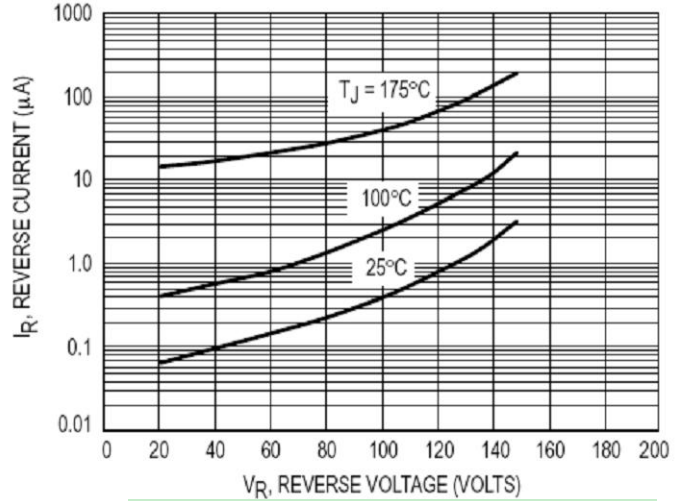
**ELECTRICAL CHARACTERISTICS(Per Diode Leg)**

Maximum Instantaneous Forward Voltage (1) (IF = 8.0 Amps, TC = 25° C)	VF	1.05	1.35	1.5	V
Maximum Instantaneous Reverse Current (1) (Rated dc Voltage, TJ = 150° C) (Rated dc Voltage, TJ = 25° C)	IR	800 10	800 10	800 10	μ A
Maximum Reverse Recovery Time (IF = 0.5 A, IR = 1.0 A, IREC = 0.25 A)	Trr	35			ns

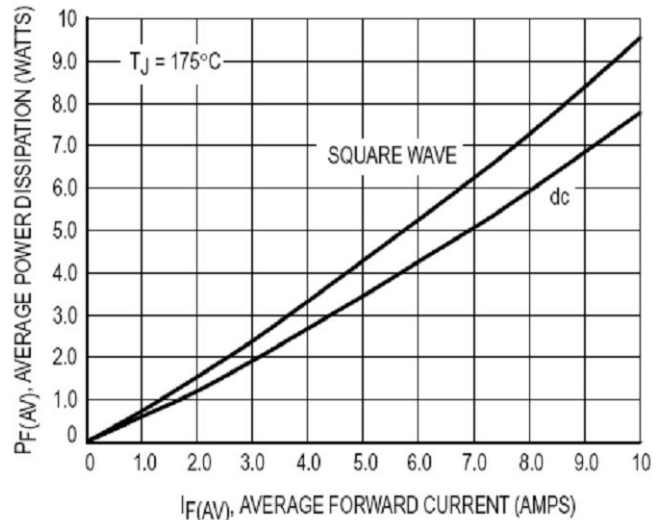
(1) Pulse Test: Pulse Width = 300μ s, Duty Cycle 2.0%.



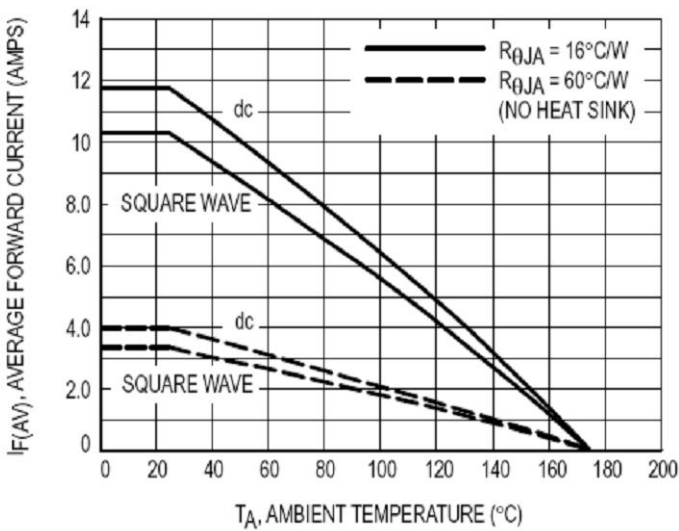
**Figure 1. Typical Forward Voltage**



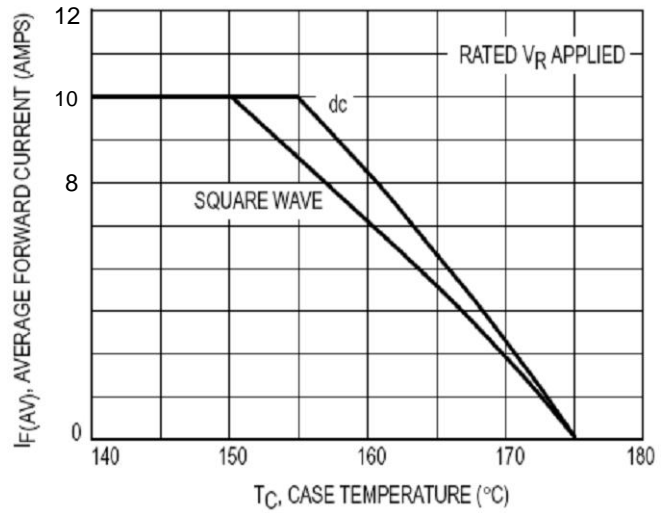
**Figure 2. Typical Reverse Current**



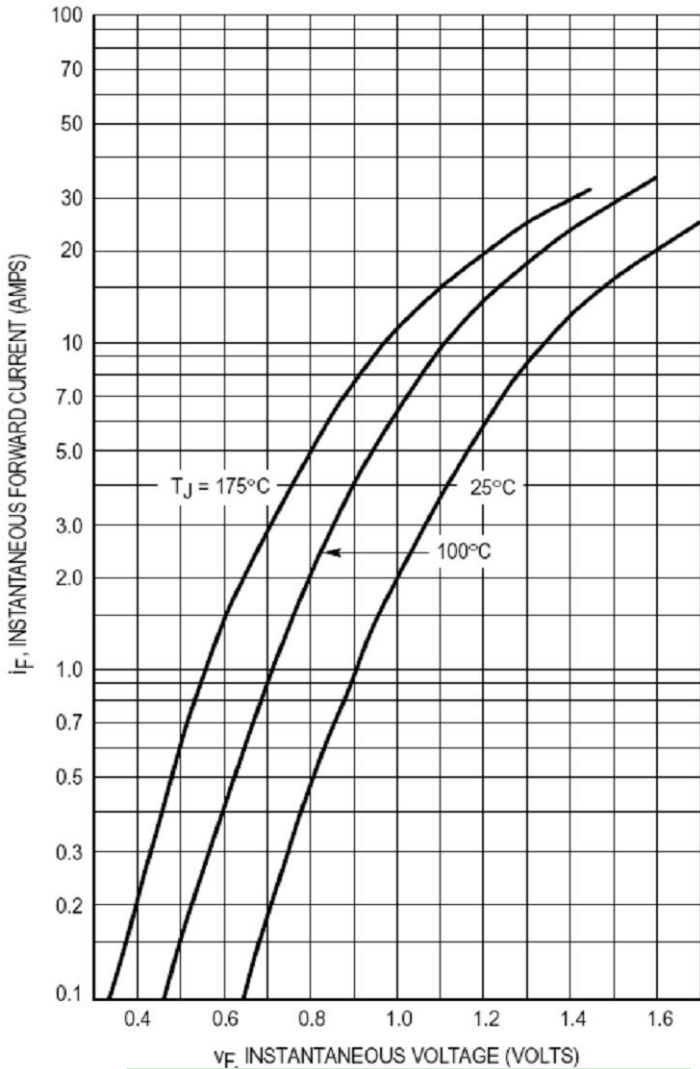
**Figure 3. Current Derating, Case**



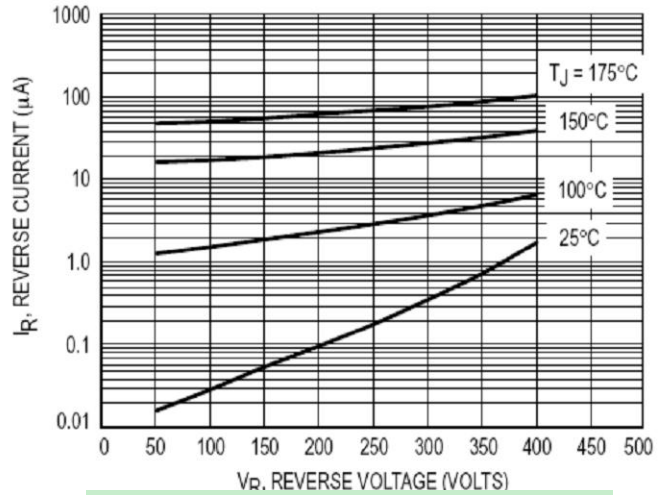
**Figure 4. Current Derating, Ambient**



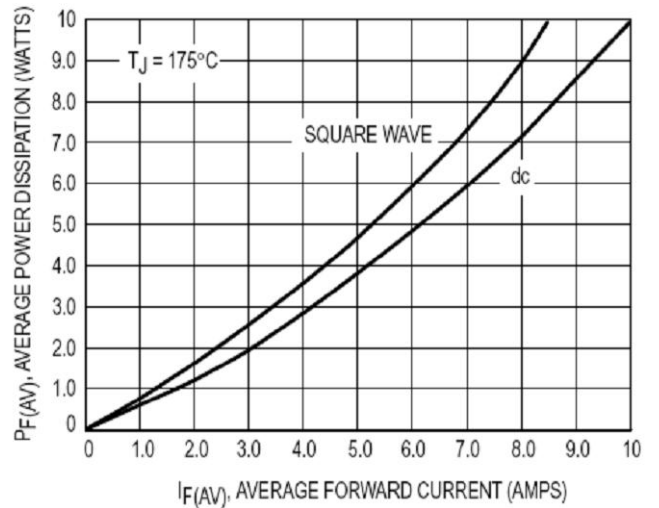
**Figure 5. Power Dissipation**



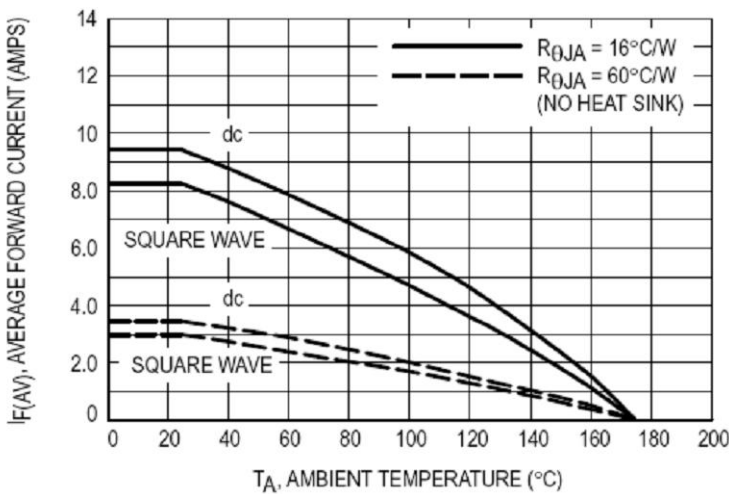
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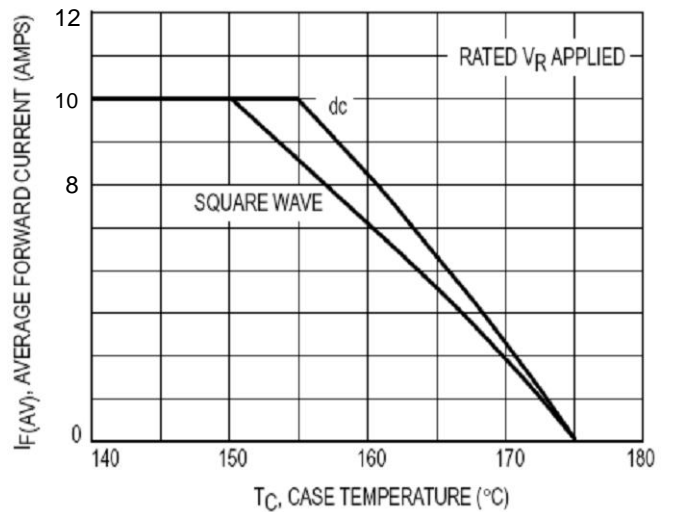
**Figure 2. Typical Reverse Current**



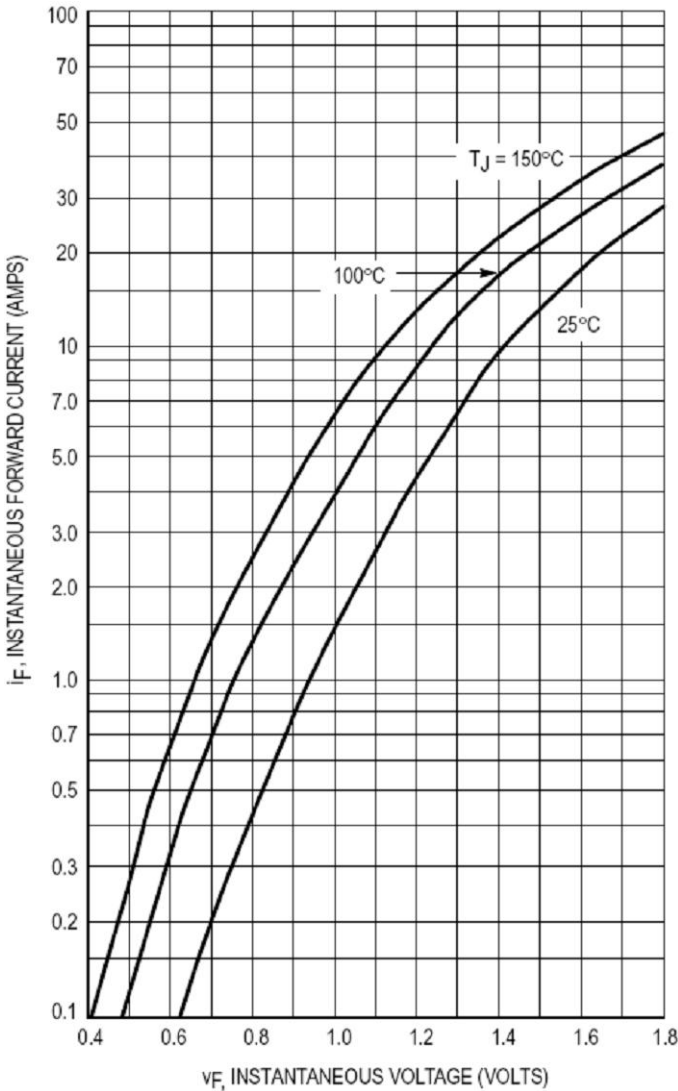
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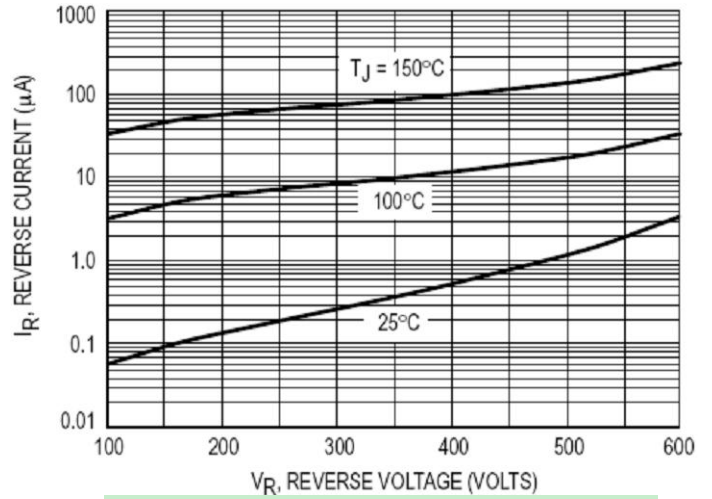
**Figure 4. Current Derating, Ambient**



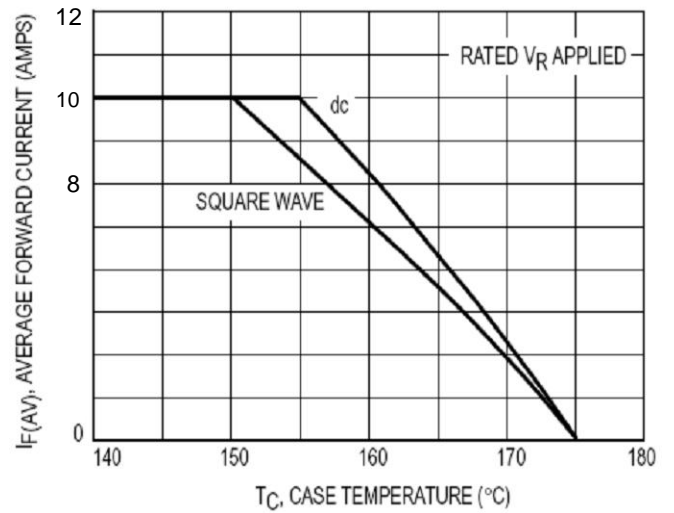
**Figure 5. Power Dissipation**



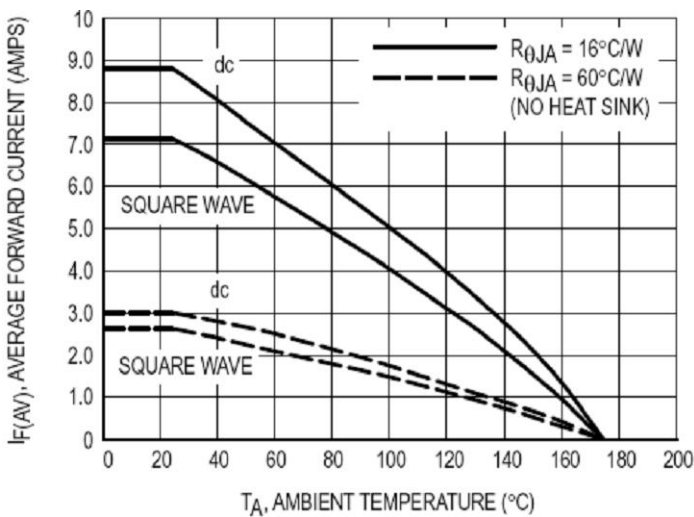
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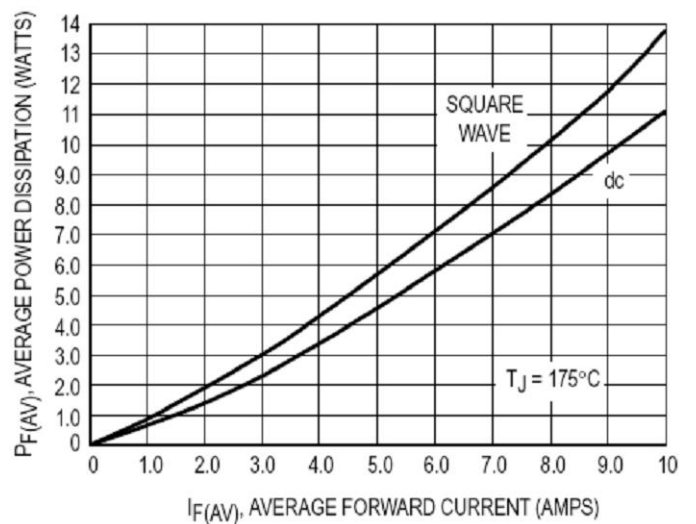
**Figure 2. Typical Reverse Current**



**Figure 3. Current Derating, Case**

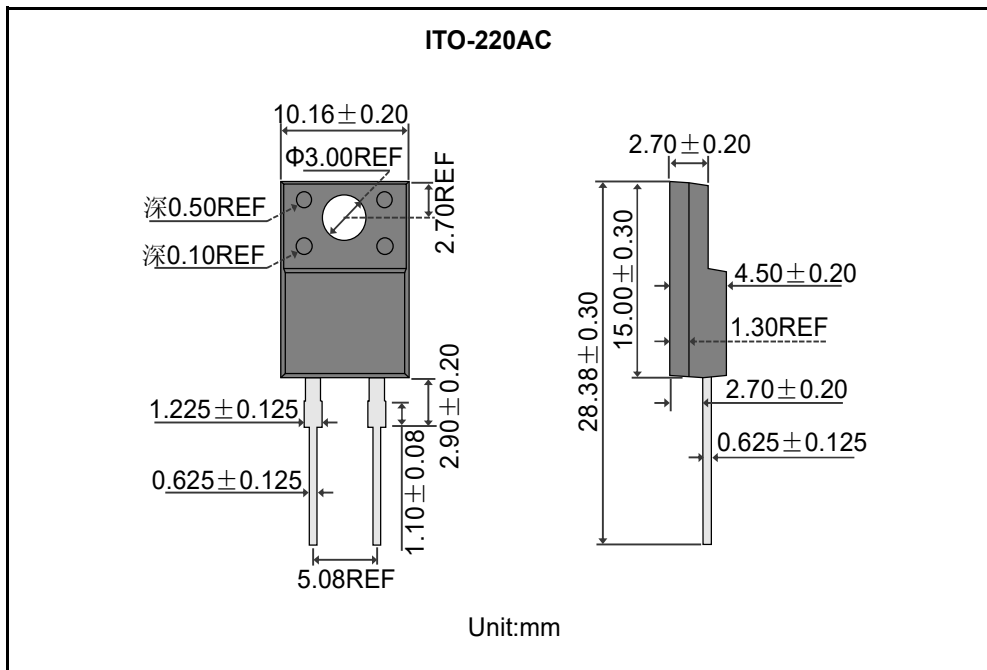
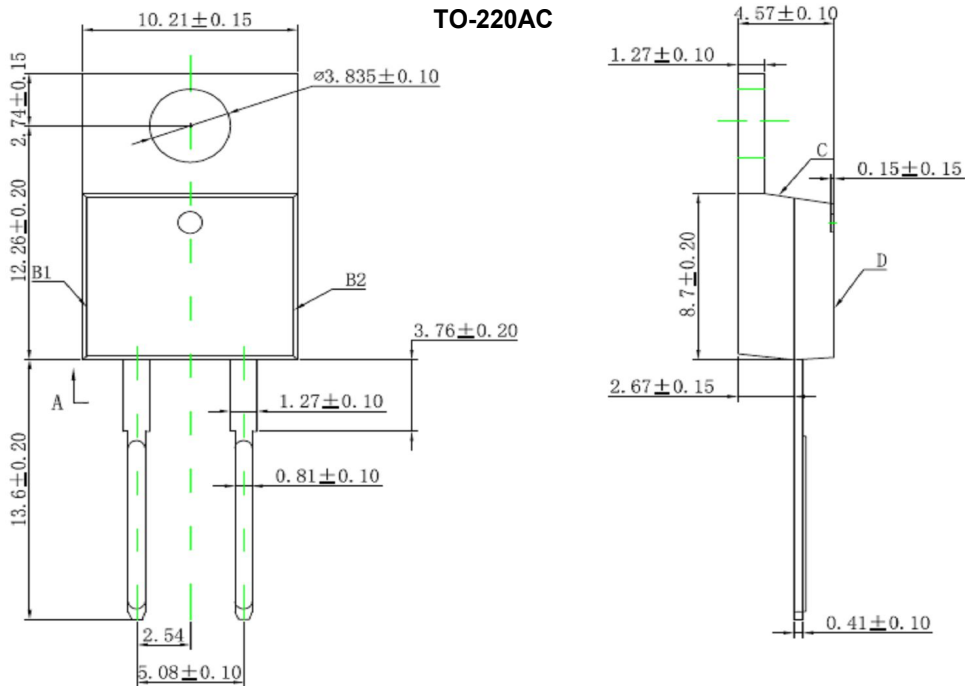


**Figure 4. Current Derating, Ambient**



**Figure 5. Power Dissipation**

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**注意事项:**

- XXXX代表日期码，第一码表示公元年的最后一码，第二码表示生产时当月码 (A, B, C... 为 一月, 二月, 三月...), 第三, 四码表示大量生产时批次码。  
例如: 2013年第一月生产的, D/C为CAXX。
- 包装及出货: ROHS, 50PCS/管, 1K/BOX, 5K (5K BOXEX) /CARTON, BOXEX及 CARTON。



**MURF1060AC**



修订内容