

SUPER-FAST RECOVERY RECTIFIERS

Features	<p>Ultrafast 35 Nanosecond Recovery Time</p> <p>175° C Operating Junction Temperature</p> <p>Popular TO-220AC/TO-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>	<p>Typical Reference Data</p> <p>VRRM= 200V IF(AV)= 8A</p> <p>VRRM= 400V IF(AV)= 8A</p> <p>VRRM= 600V IF(AV)=8A</p>
Mechanical Characteristics	<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>	

MAXIMUM RATINGS

Rating	Symbol	820	840	860	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)	8			A
Peak Repetitive Forward Current (Rated VR, Square Wave, 20 kHz), TC = 150	IFM	4			A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave , single phase, 60	IFSM	100			A
Operating Junction Temperature and Storage Temperature	TJ, Tstg	- 40 to +175			

THERMAL CHARACTERISTICS(Per Diode Leg)

Maximum Thermal Resistance, Junction to Case	R JC	3.0	2.0	M/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)	IR	800	800	800	μ A
(Rated dc Voltage, TJ = 25° C)		10	10	10	
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%.

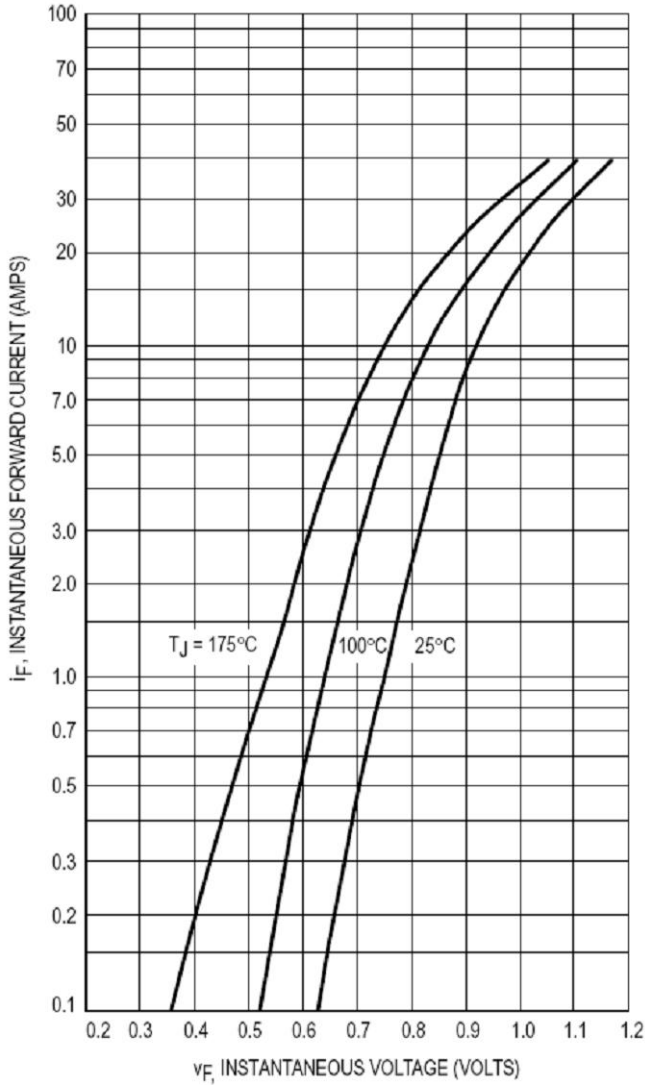


Figure 1. Typical Forward Voltage

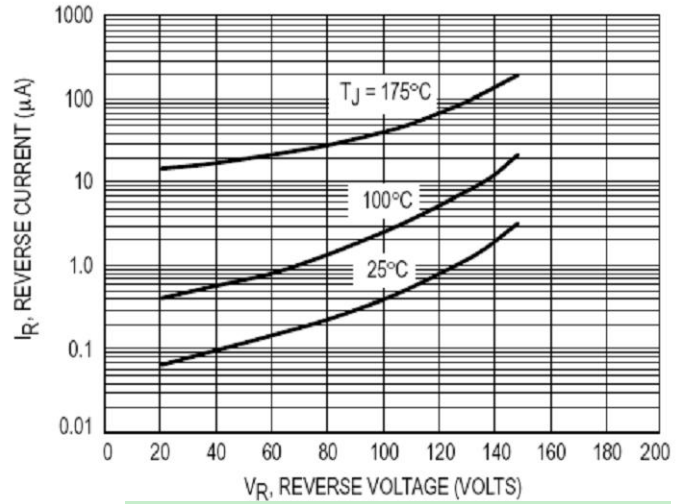


Figure 2. Typical Reverse Current

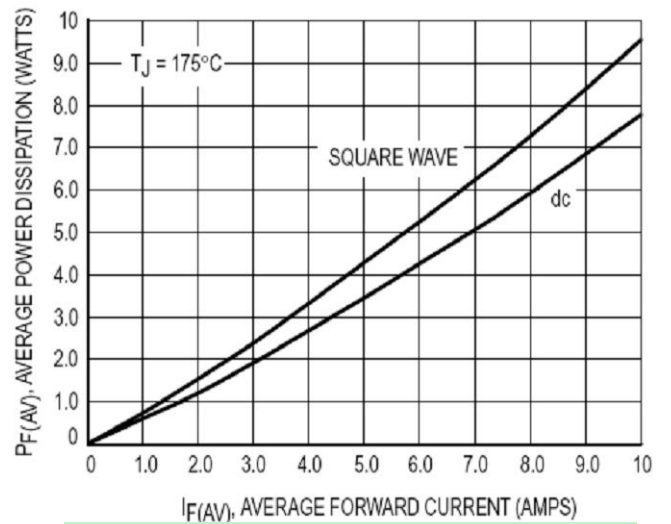


Figure 3 Current Derating, Case

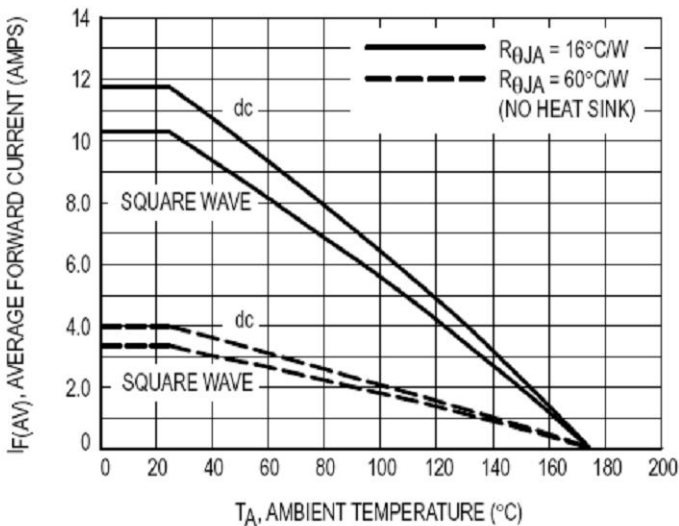


Figure 4 Current Derating, Ambient

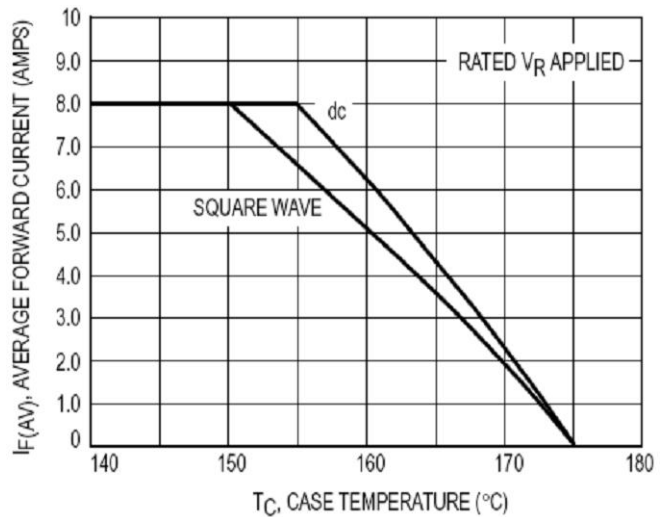


Figure 5 Power Dissipation

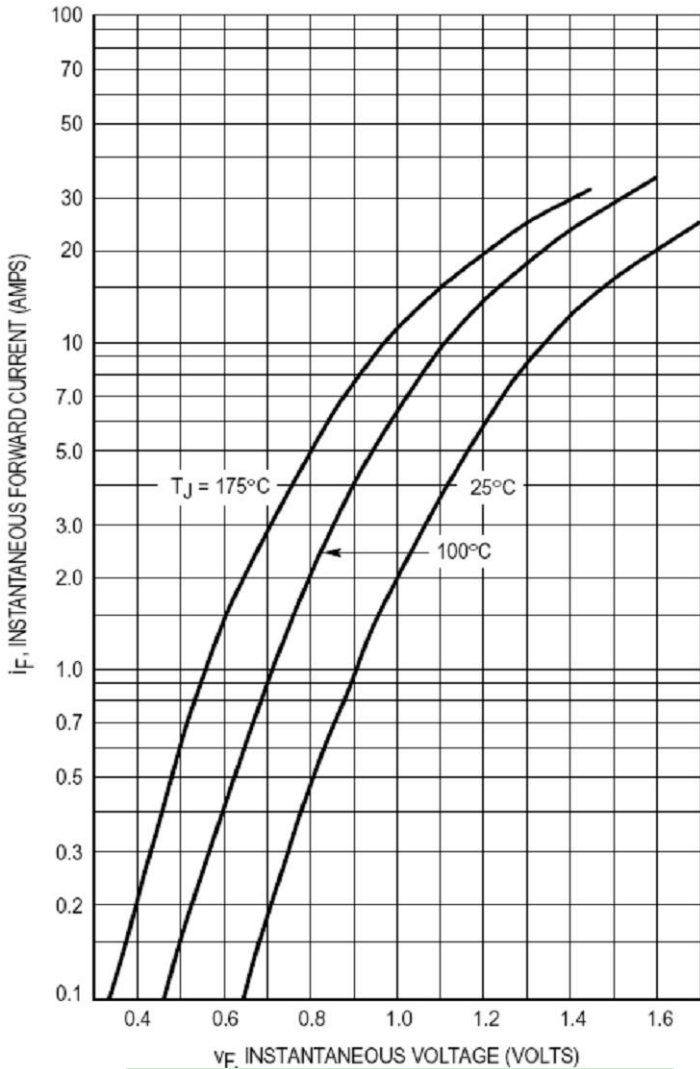


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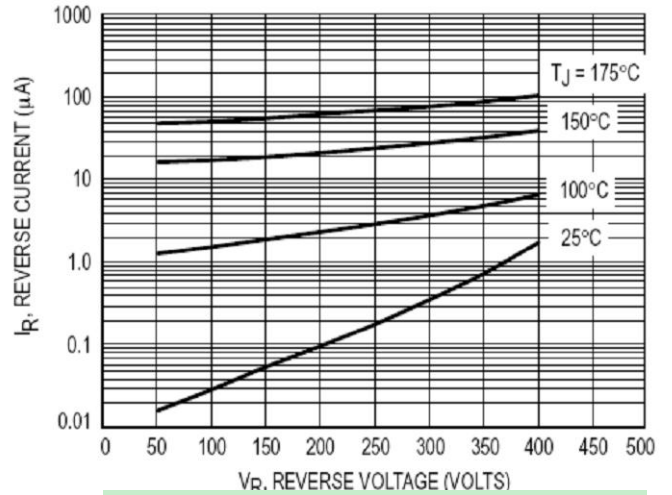


Figure 2. Typical Reverse Current

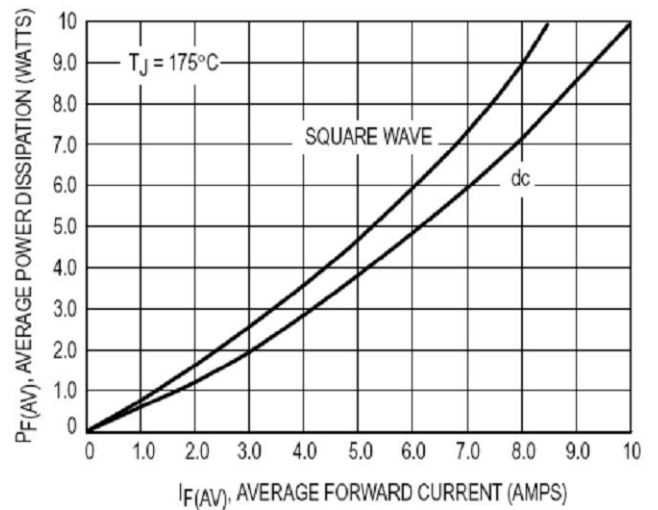


Figure 3. Current Derating, Case

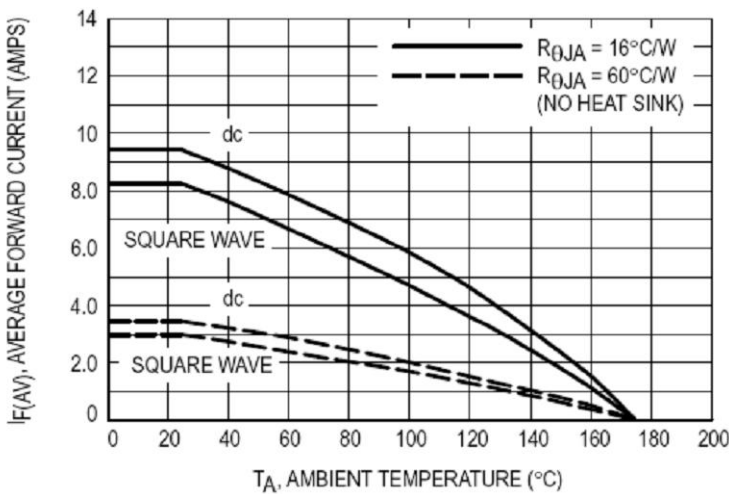


Figure 4. Current Derating, Ambient

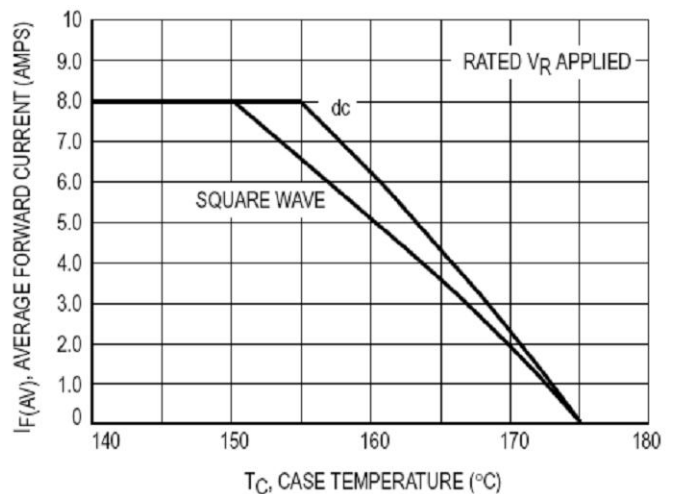


Figure 5. Power Dissipation

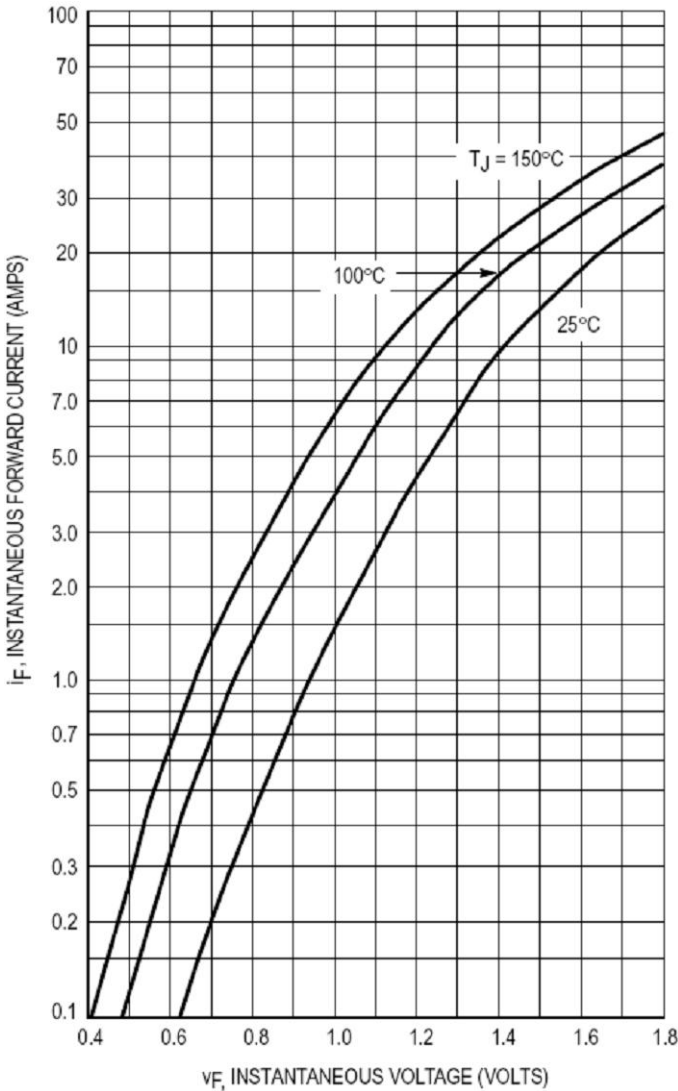


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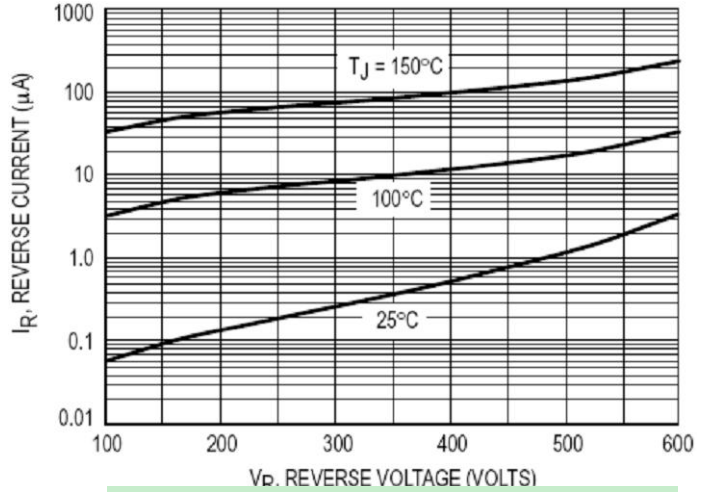


Figure 2. Typical Reverse Current

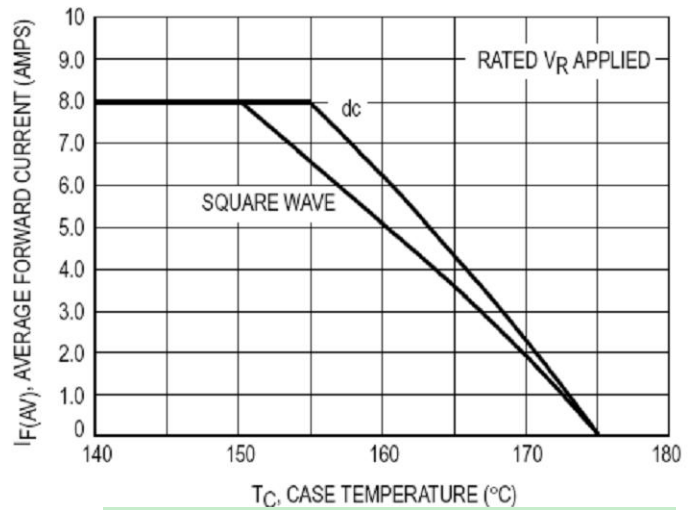


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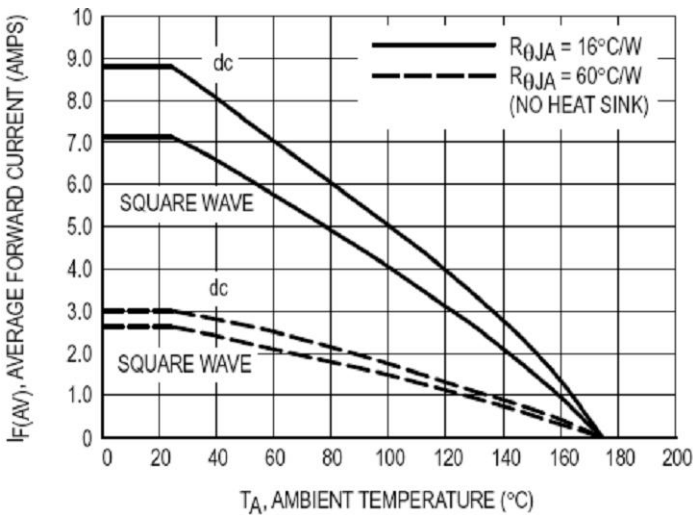


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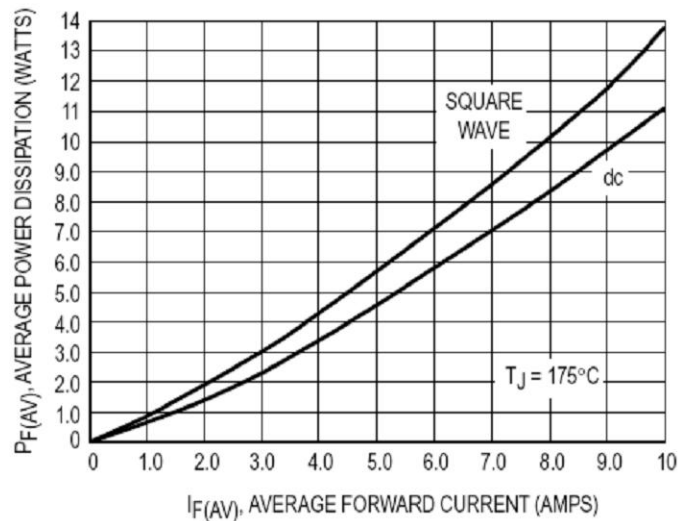
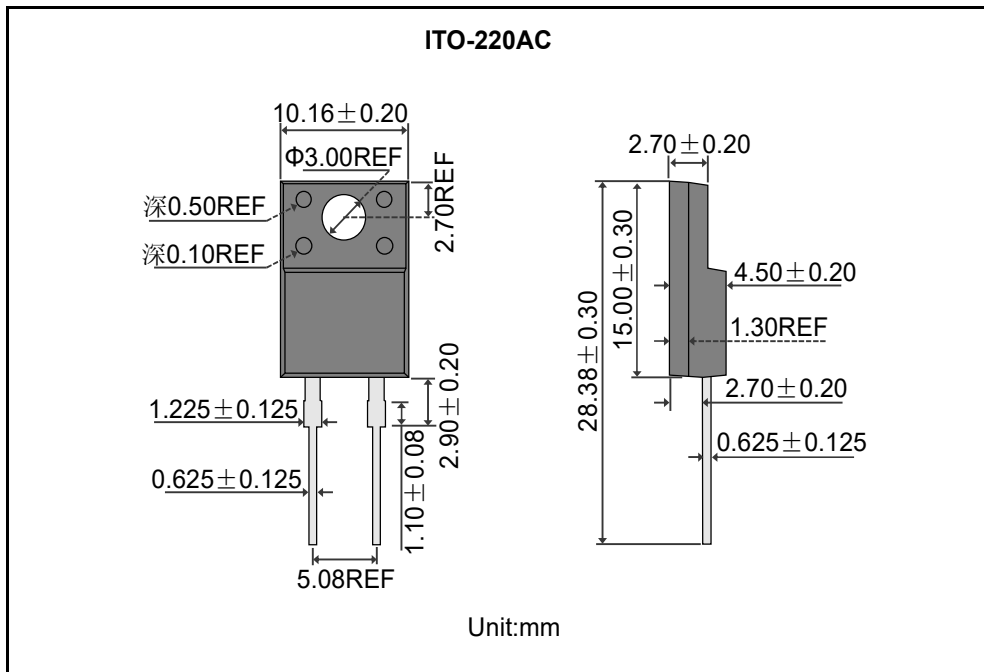
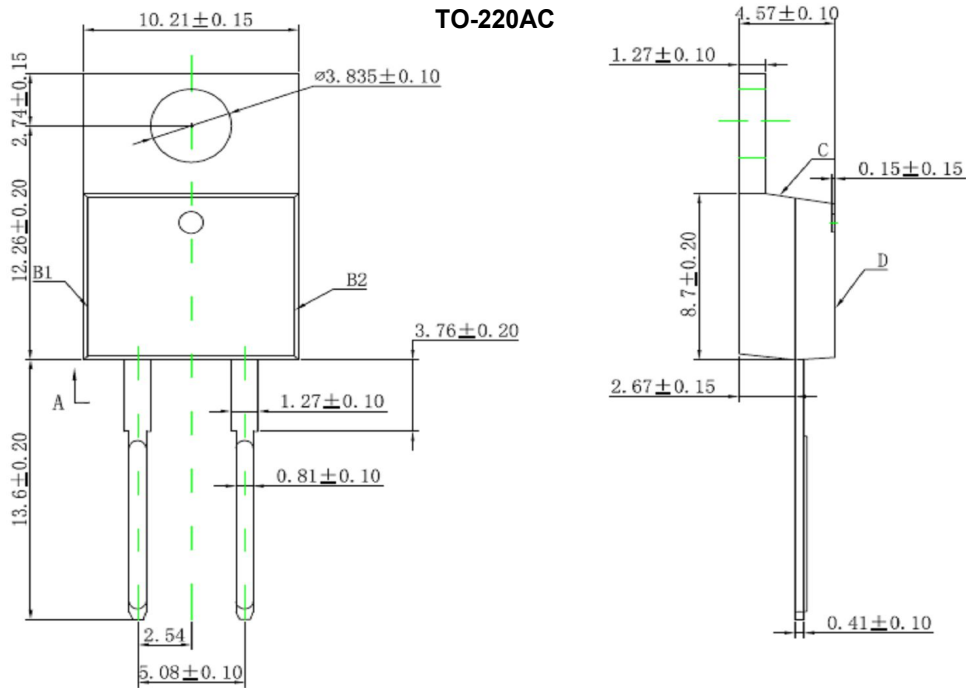


Figure 5. Power Dissipation

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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。



修订内容