

SUPER-FAST RECOVERY RECTIFIERS

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

VRRM= 200V
IF(AV)= 16A

VRRM= 400V
IF(AV)= 16A

Mechanical Characteristics	Case: Epoxy, Molded Weight: 1.9 grams (approximately) Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable Lead Temperature for Soldering Purposes: 260° C Max. for 10 Seconds Shipped 50 units per plastic tube
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VRRM= 600V
IF(AV)=16A

MAXIMUM RATINGS

Rating	Symbol	1620	1640	1660	Unit
Peak Repetitive Reverse Voltage	VRRM	200	400	600	V
Working Peak Reverse Voltage	VRM				
DC Blocking Voltage	VR				
Average Rectified Forward Current	IF(AV)	8			A
Total Device, (Rated VR), TC = 150		16			
Peak Repetitive Forward Current	IFM	8			A
(Rated VR, Square Wave, 20 kHz), TC = 150					
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 _{jc}	3.0	2.0	M/W
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ELECTRICAL CHARACTERISTICS(Per Diode Leg)

Maximum Instantaneous Forward Voltage (1) (IF = 8.0 A, 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	800	800	μ A
		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%.

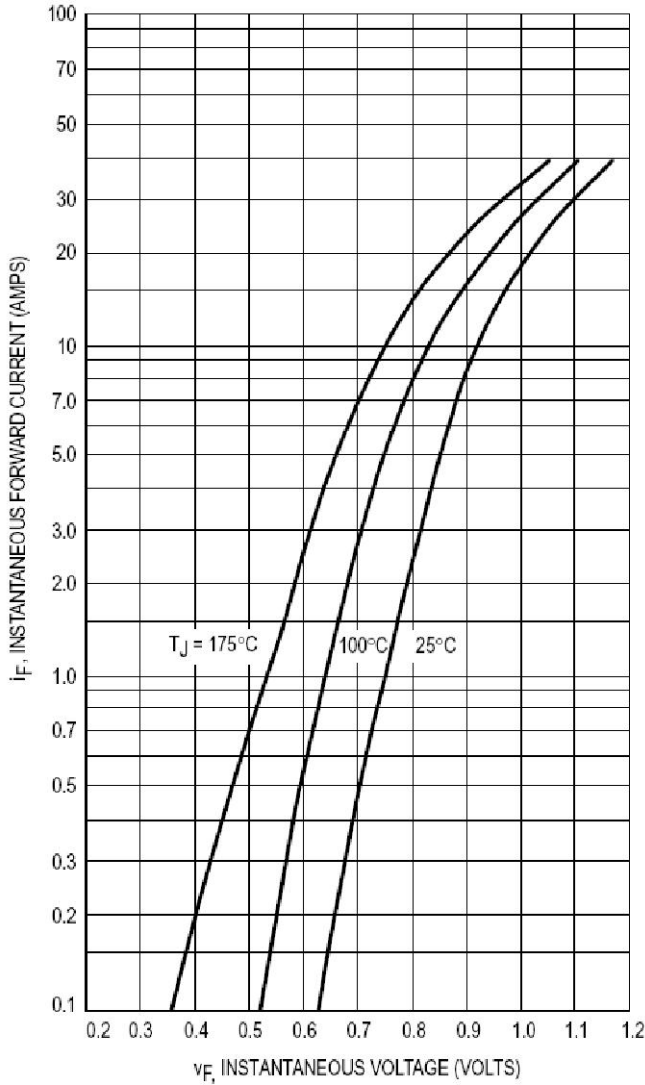


Figure 1. Typical Forward Voltage

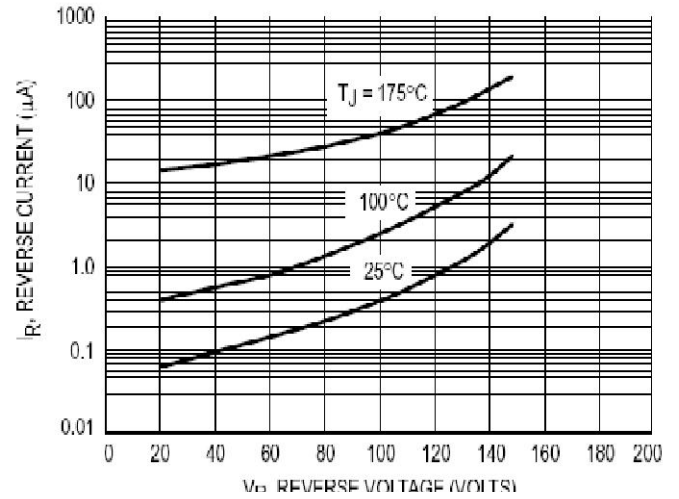


Figure 2. Typical Reverse Current

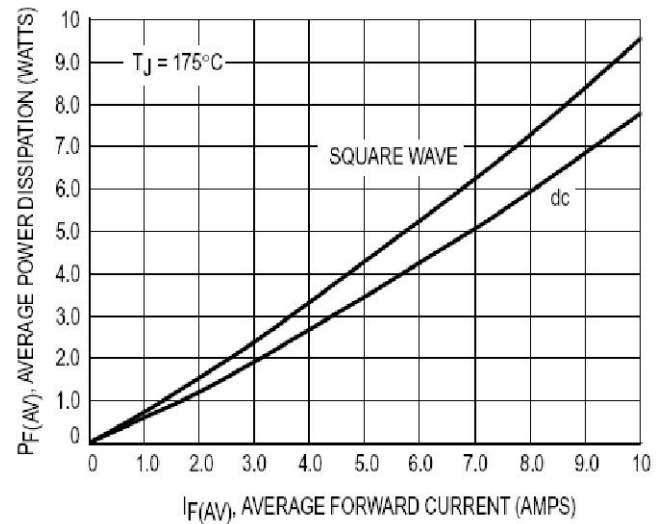


Figure 3. Current Derating, Case

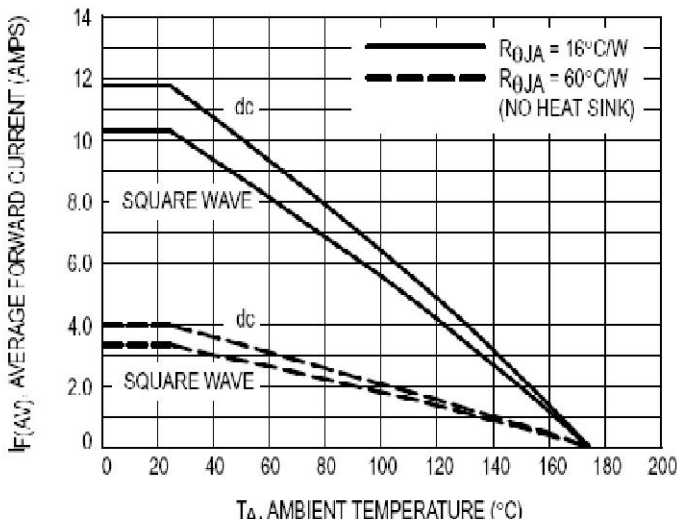


Figure 4. Current Derating, Ambient

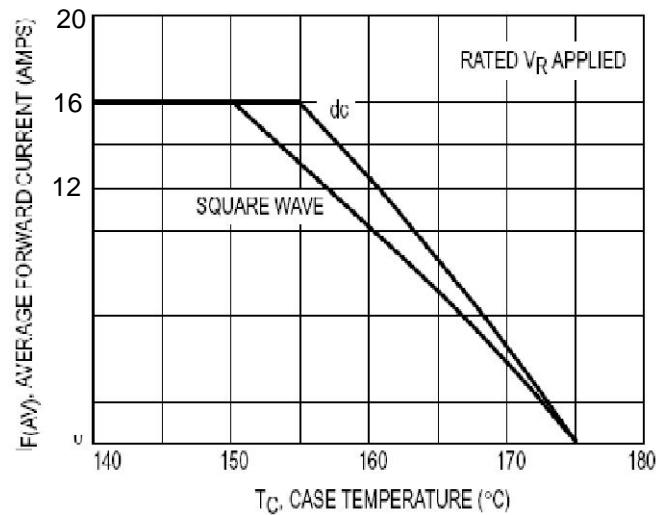


Figure 5. Power Dissipation

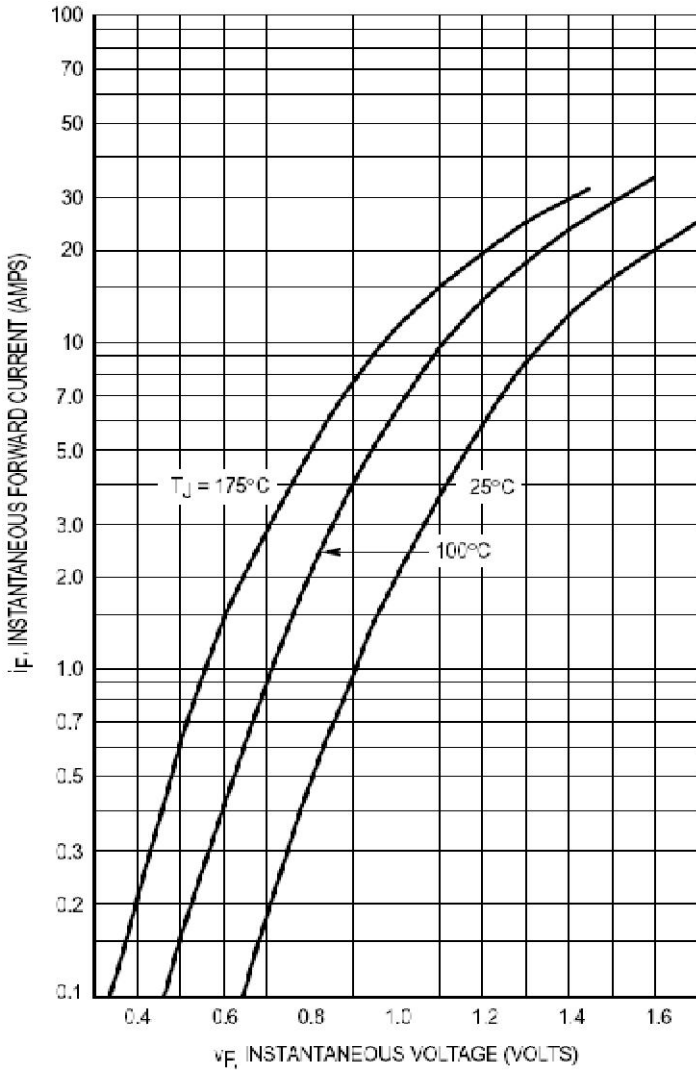


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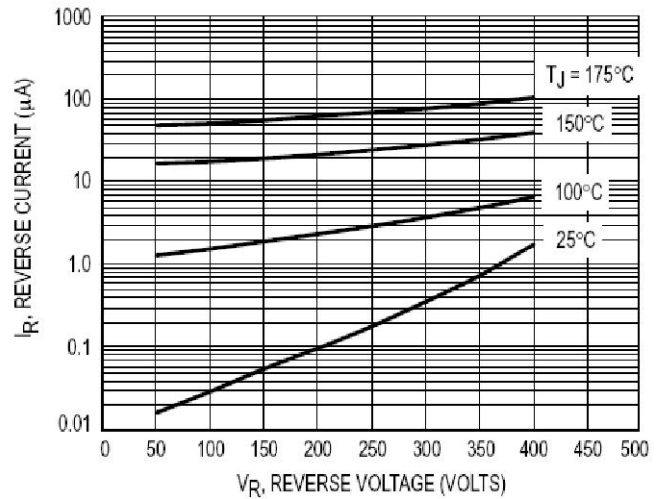


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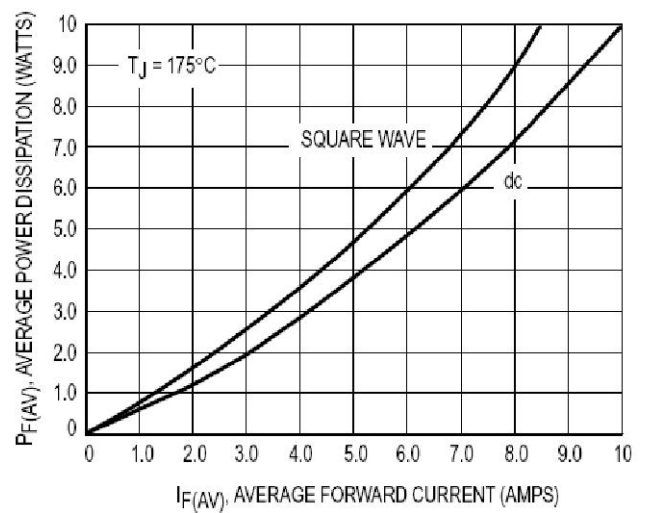


Figure 3. Current Derating, Case

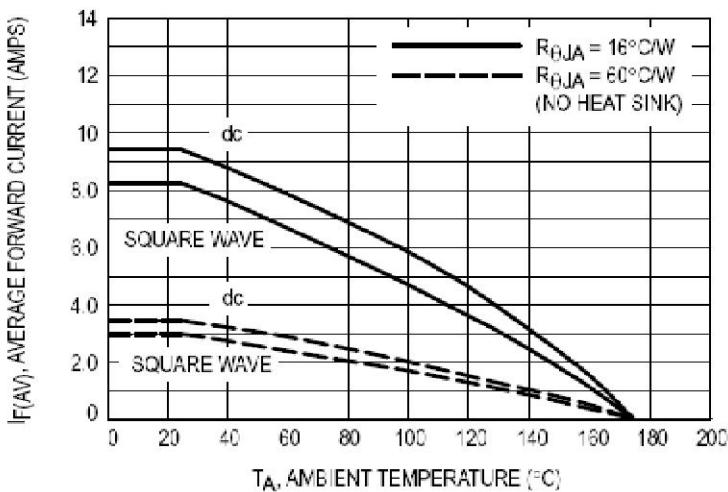


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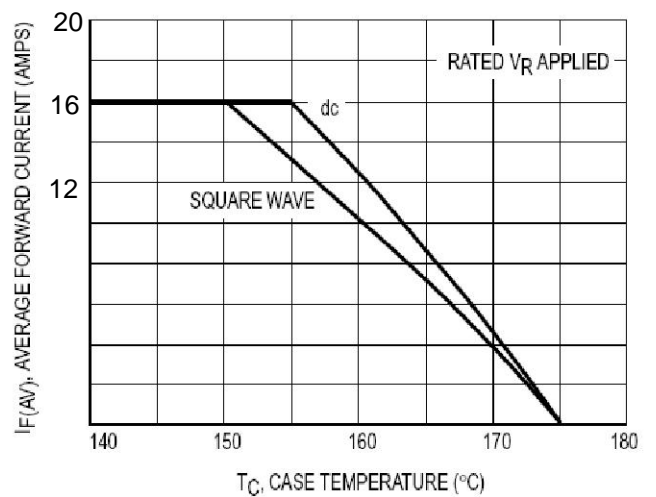


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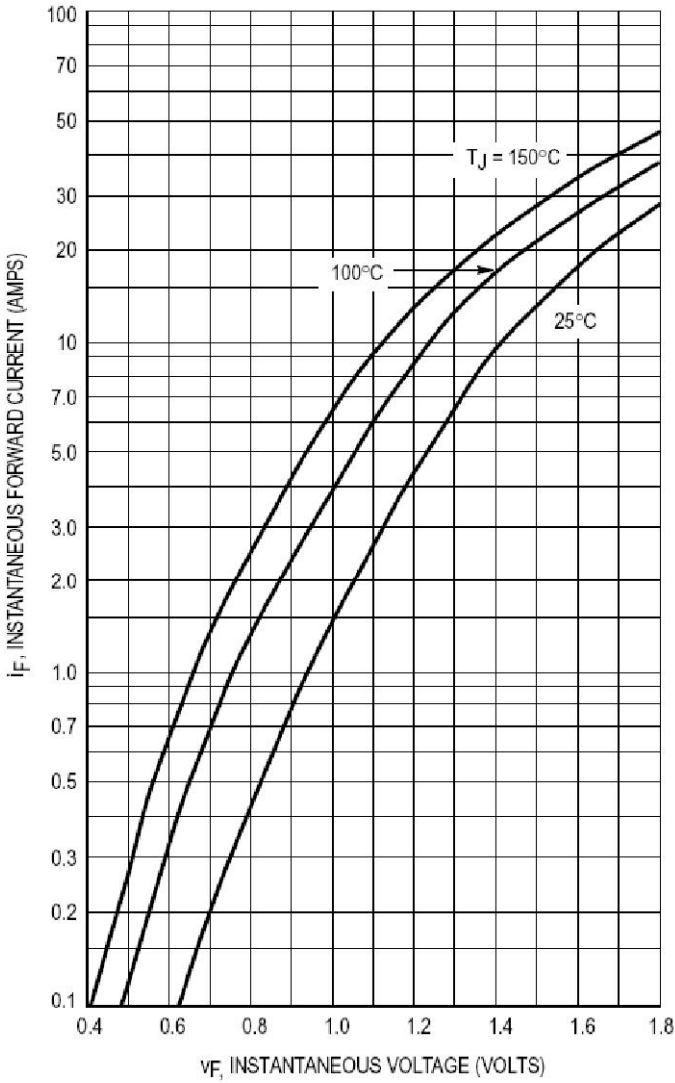


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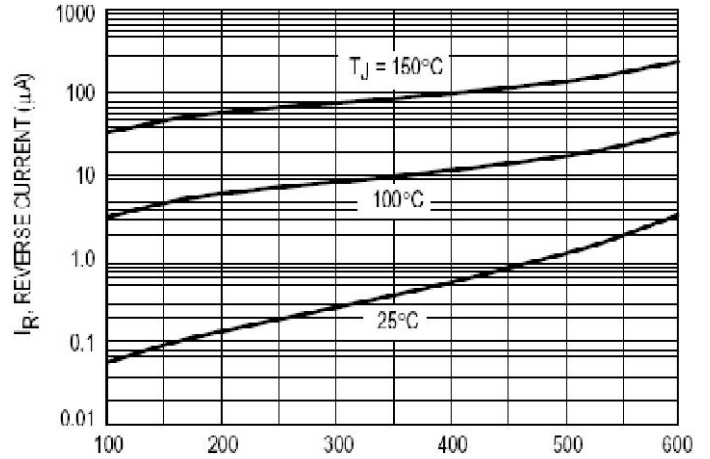


Figure 2. Typical Reverse Current

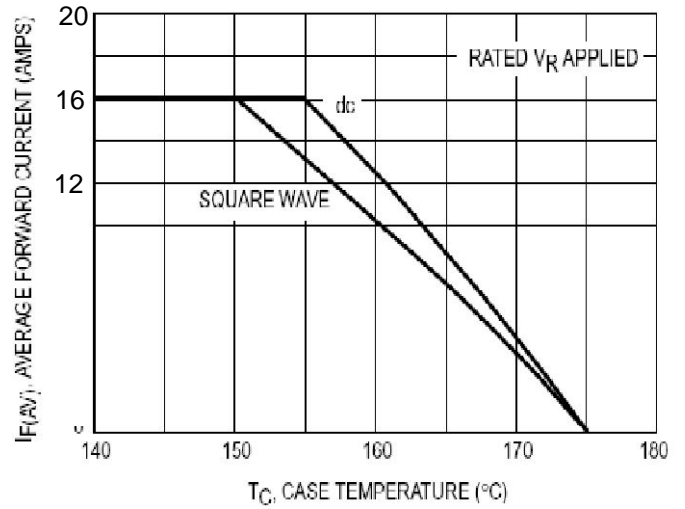


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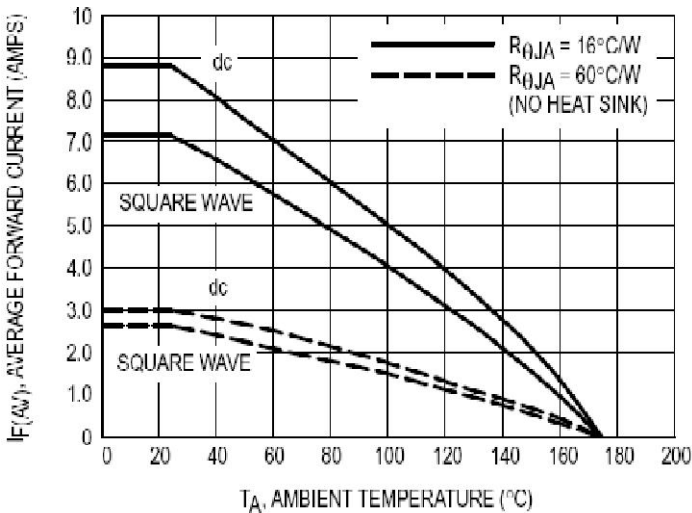


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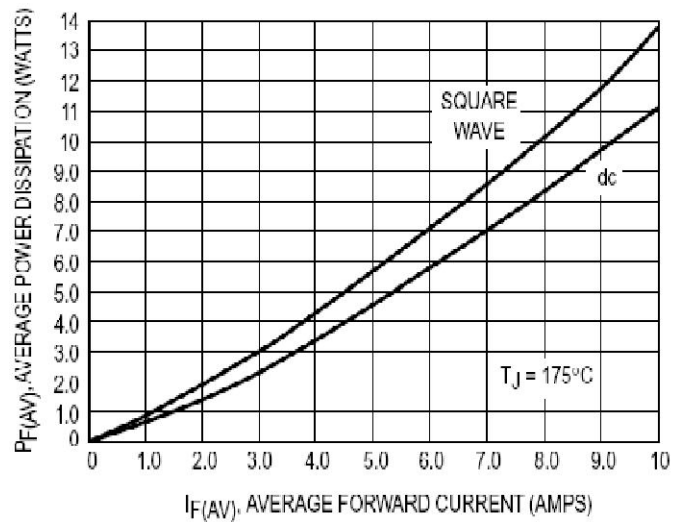
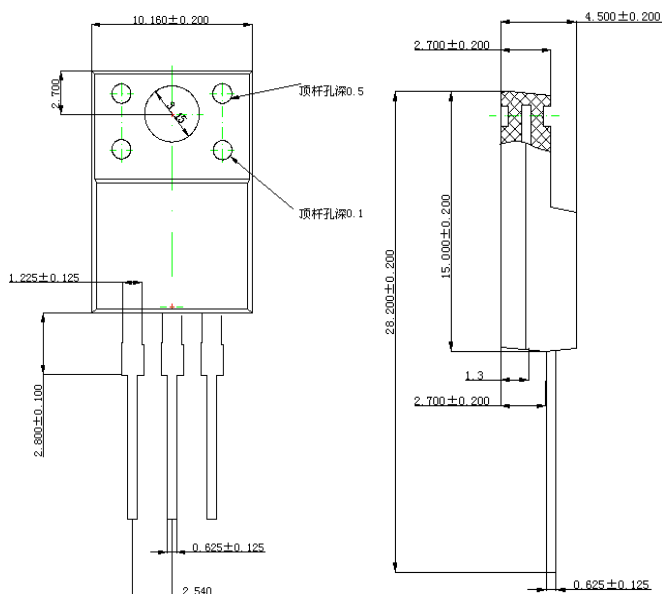
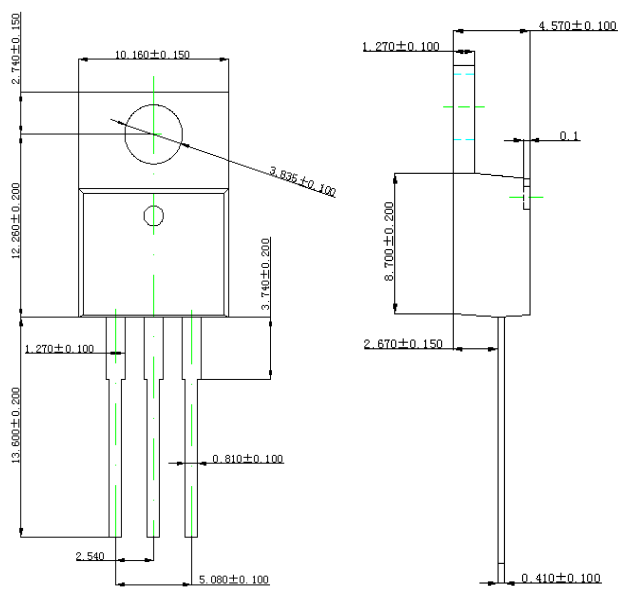


Figure 5. Power Dissipation

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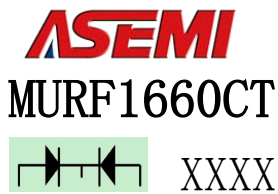
TO-220

ITO-220



注意事项:

1. 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。
2. 包装及出货: ROHS, 50PCS/管, 1K/BOX, 5K (5K BOXEX) /CARTON, BOXEX及 CARTON。



修订内容