

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	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	VRRM= 600V IF(AV)=16A

MAXIMUM RATINGS

Rating	Symbol	1602	1604	1606	Unit
Peak Repetitive Reverse Voltage	VRRM	200	400	600	V
Working Peak Reverse Voltage	VRRM				
DC Blocking Voltage	VR				
Average Rectified Forward Current	IF(AV)	8			A
Total Device, (Rated VR), TC = 150°C		16			
Peak Repetitive Forward Current (Rated VR, Square Wave, 20 kHz), TC = 150°C	IFM	8			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			°C

THERMAL CHARACTERISTICS (Per Diode Leg)

Maximum Thermal Resistance, Junction to Case	R _{θJC}	3.0	2.0	°C/W
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ELECTRICAL CHARACTERISTICS(Per Diode Leg)

Maximum Instantaneous Forward Voltage (1) (IF = 8.0 Ams, 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%.

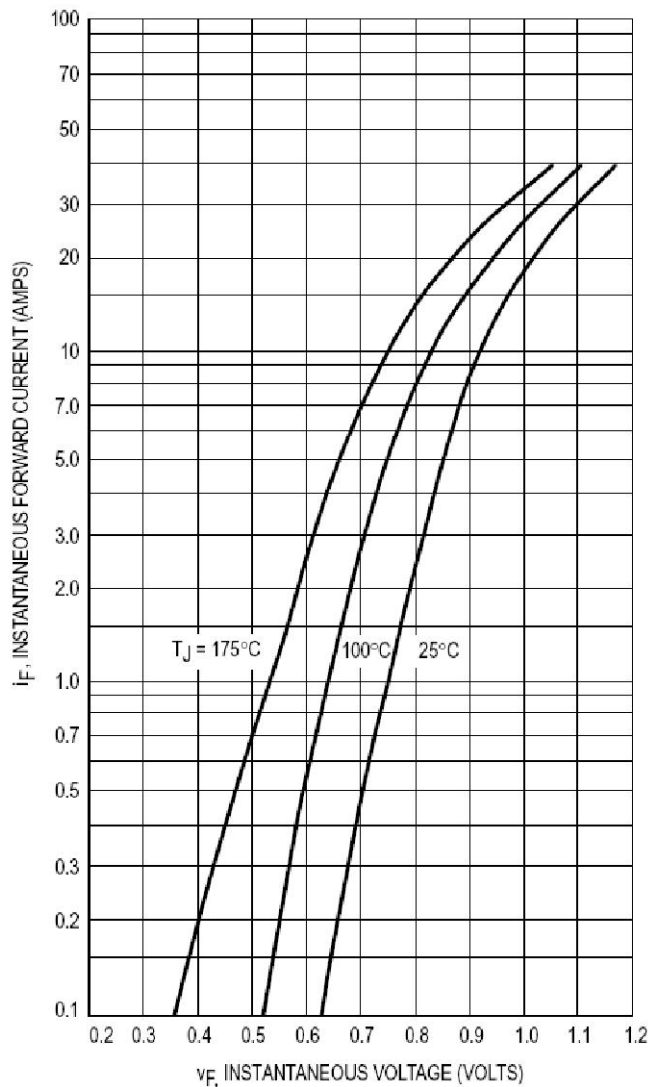


Figure 1. Typical Forward Voltage

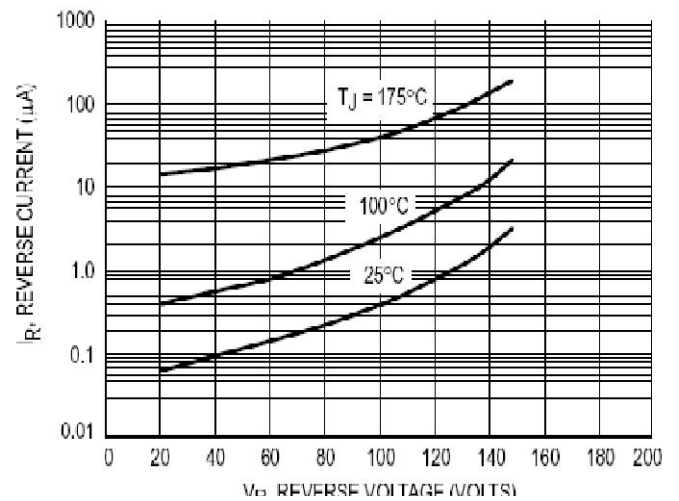


Figure 2. Typical Reverse Current

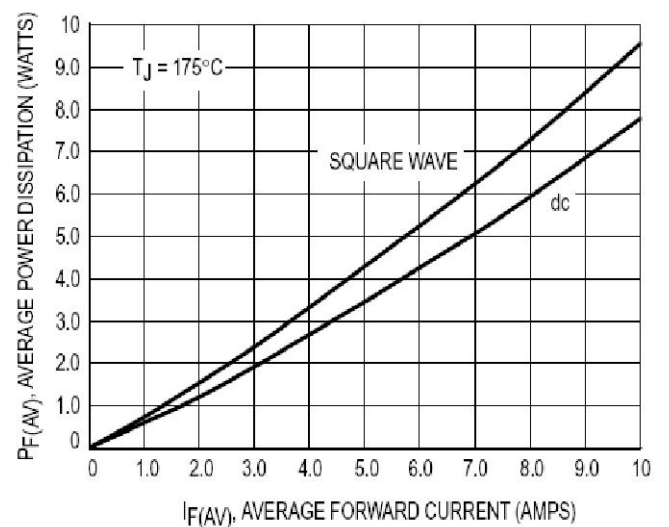


Figure 3. Current Derating, Case

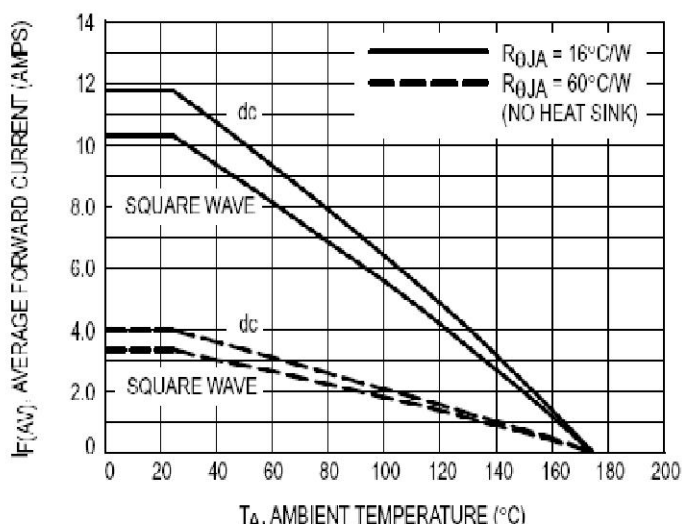


Figure 4. Current Derating, Ambient

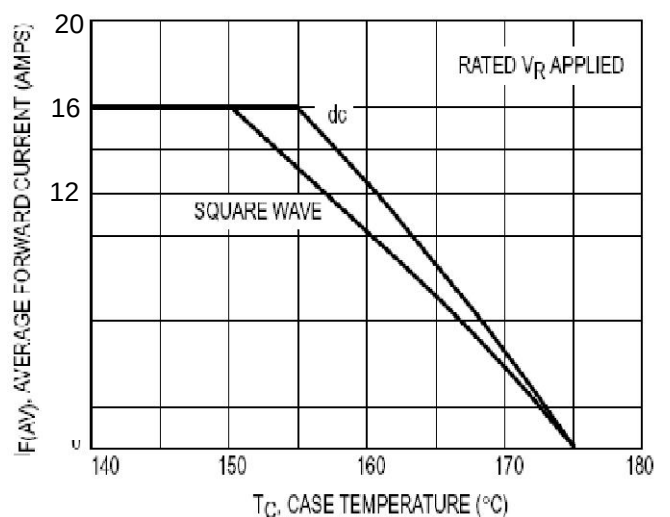


Figure 5. Power Dissipation

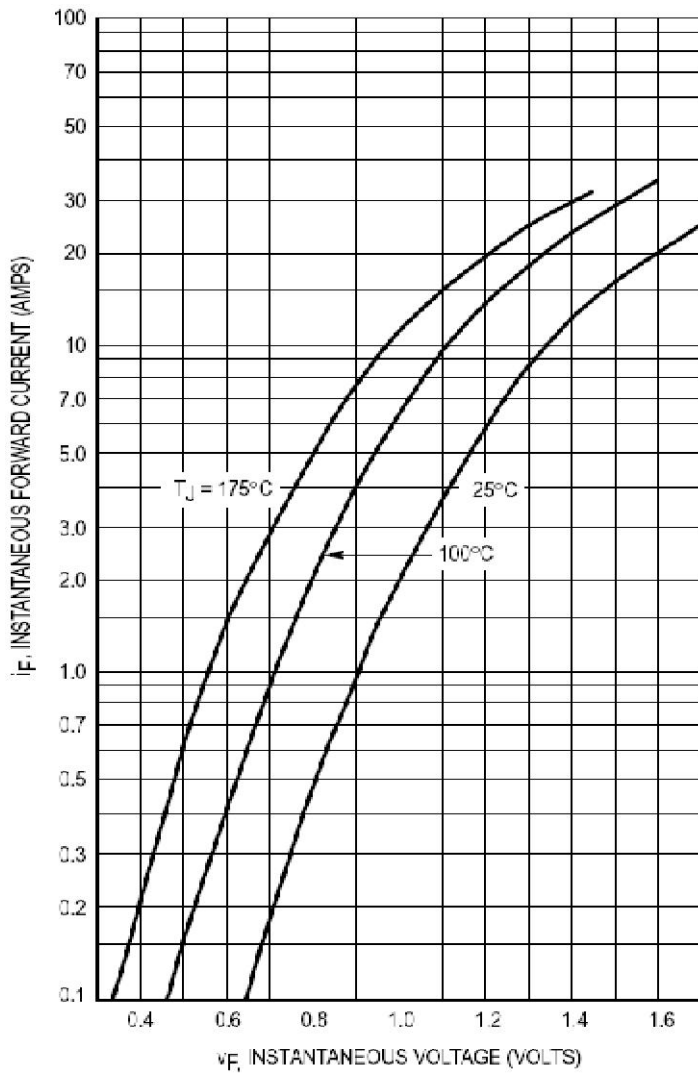


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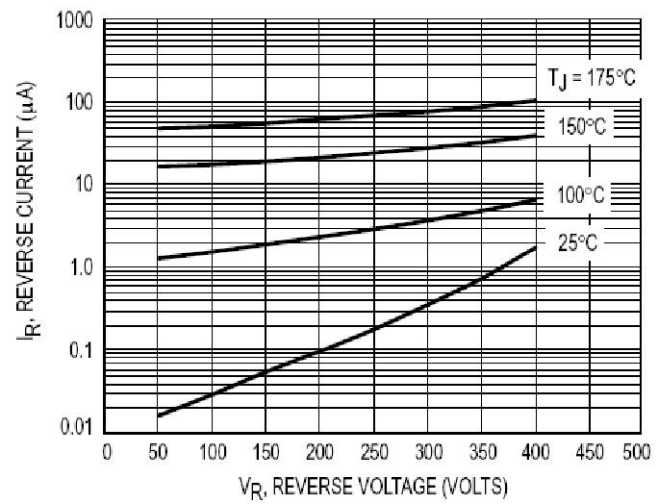


Figure 2. Typical Reverse Current

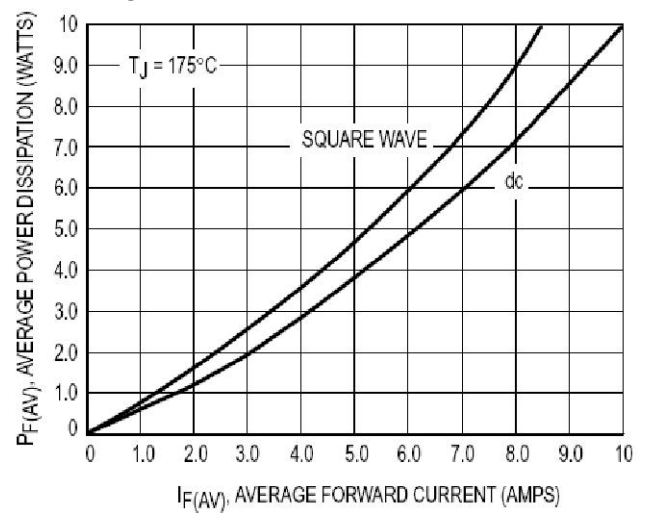


Figure 3. Current Derating, Case

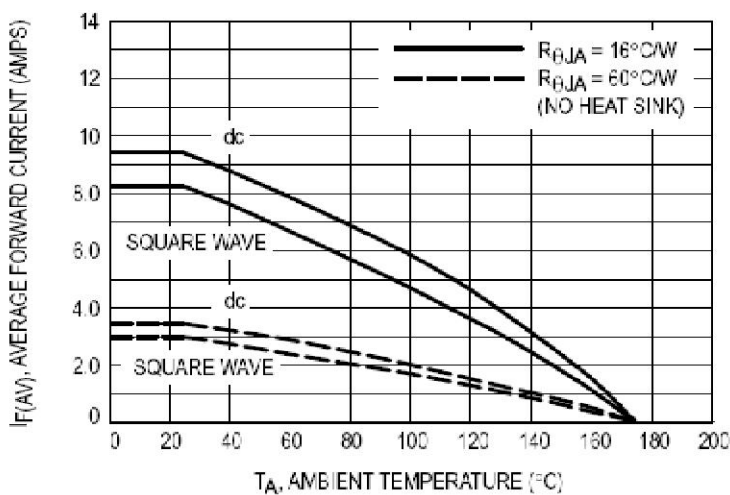


Figure 4. Current Derating, Ambient

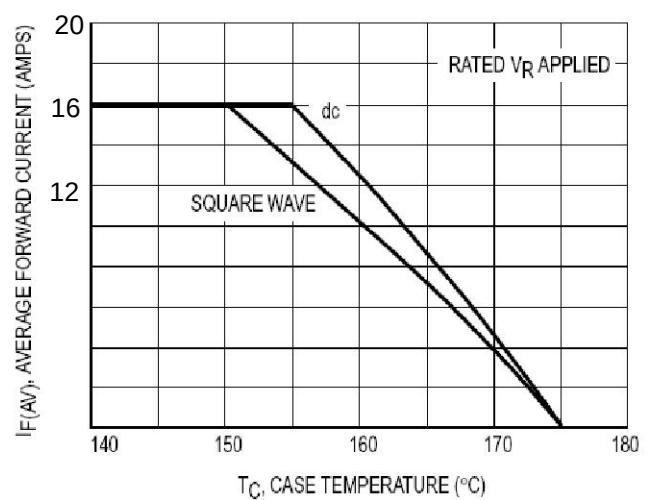


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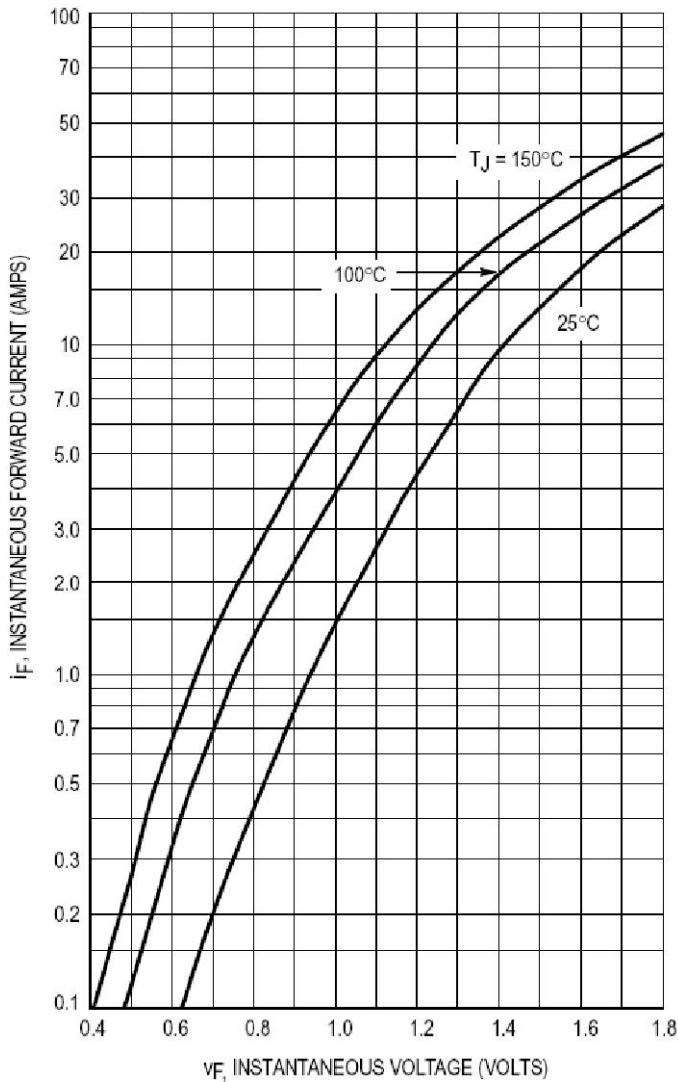


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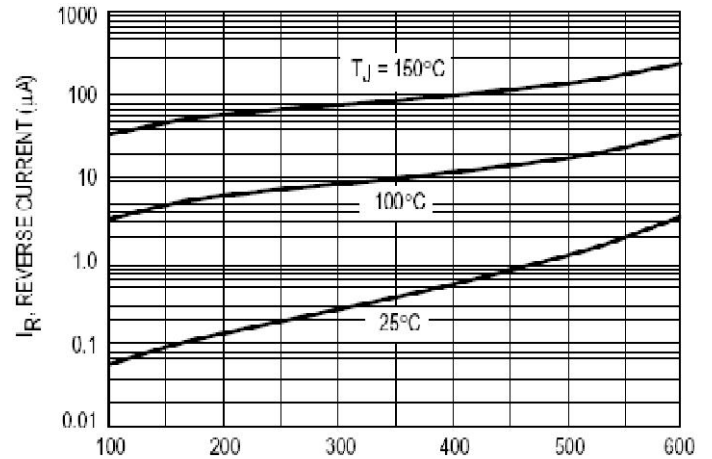


Figure 2. Typical Reverse Current

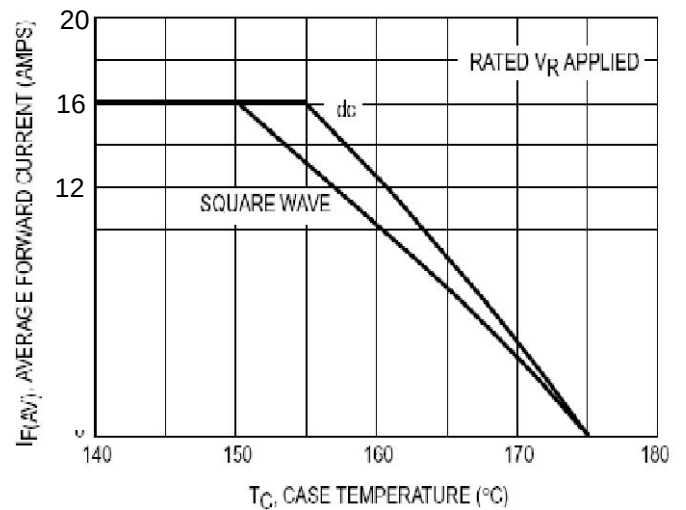


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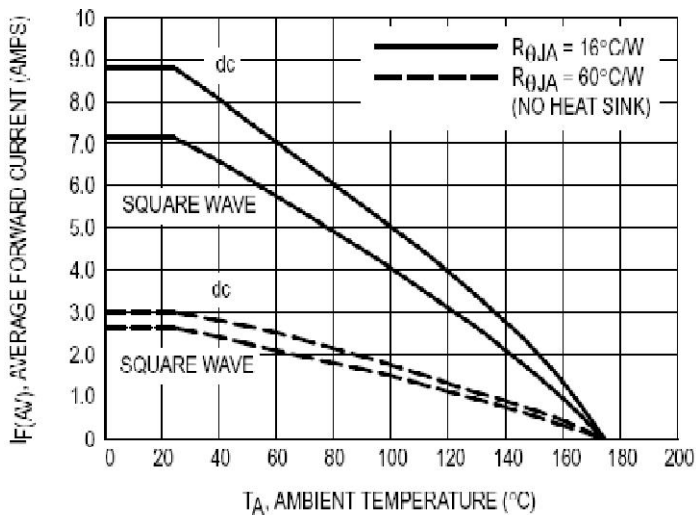


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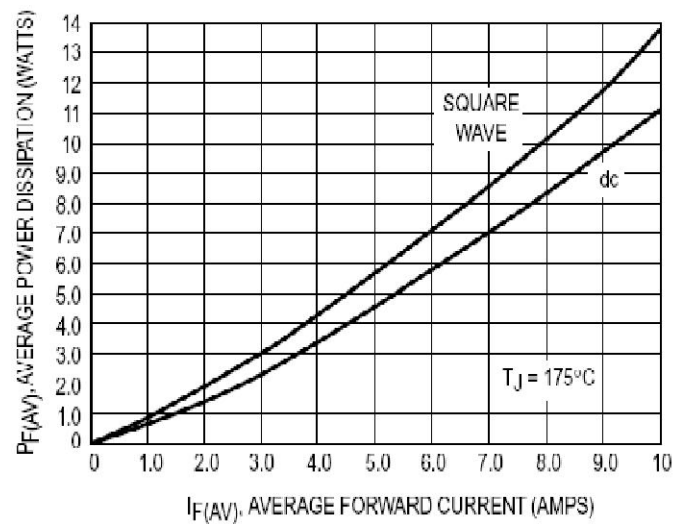
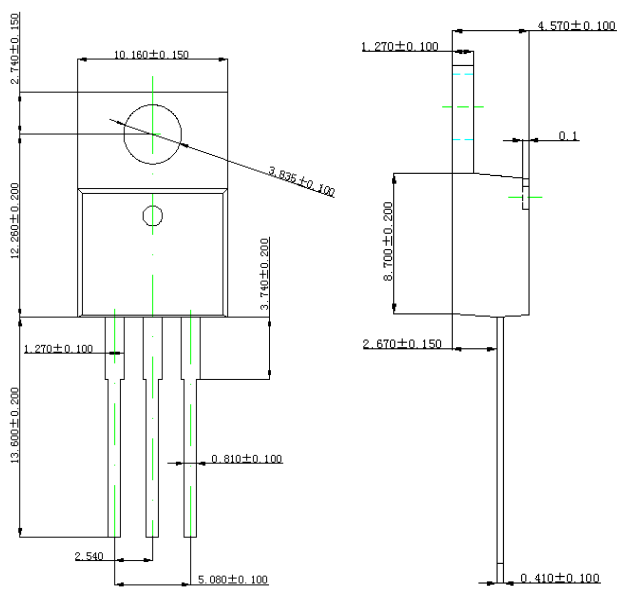


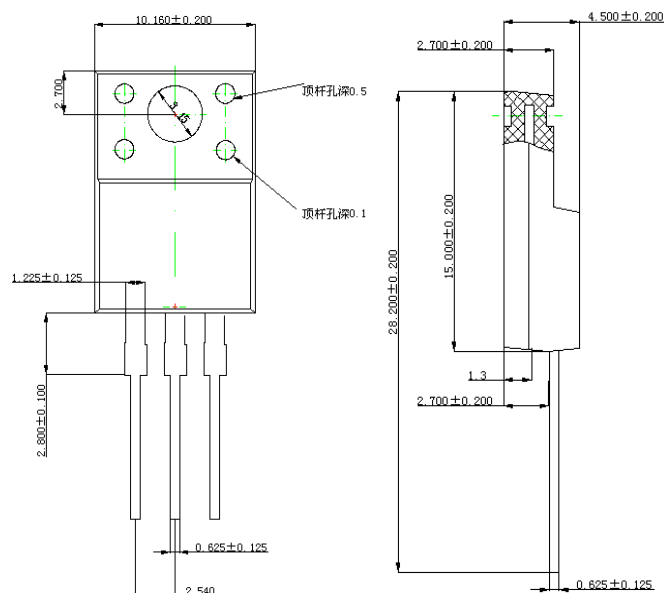
Figure 5. Power Dissipation

SUPER-FAST RECOVERY RECTIFIERS

TO-220



ITO-220



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。

ASEMI
SFF1606



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修订内容