

**SUPER-FAST RECOVERY RECTIFIERS**

REV:1.01

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

**MAXIMUM RATINGS**

Rating	Symbol	SF802A	SF804A	SF806A	Unit
Peak Repetitive Reverse Voltage	VRRM	200	400	600	V
Working Peak Reverse Voltage	VRRM				
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	IRM	16			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 <sub>JC</sub>	3.0	2.0	MW
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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%.

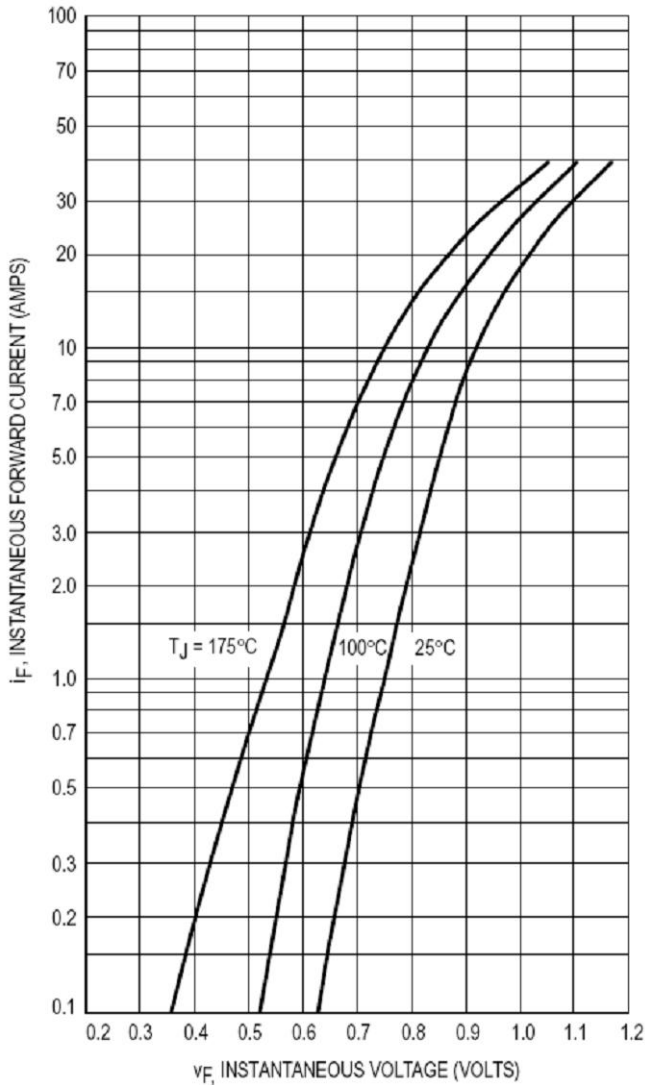


Figure 1. Typical Forward Voltage

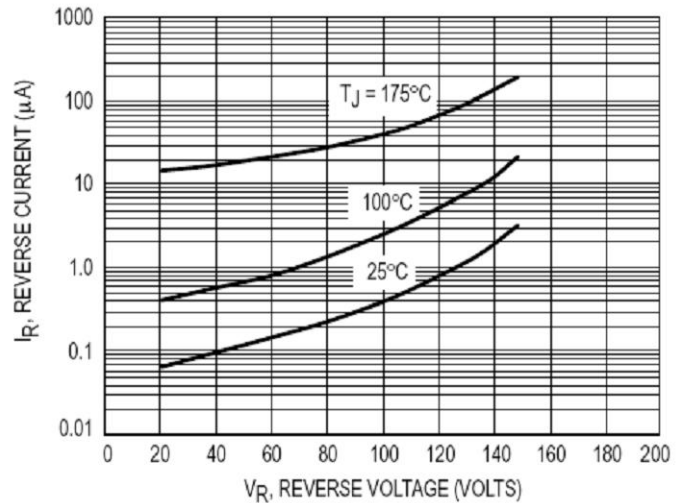


Figure 2. Typical Reverse Current

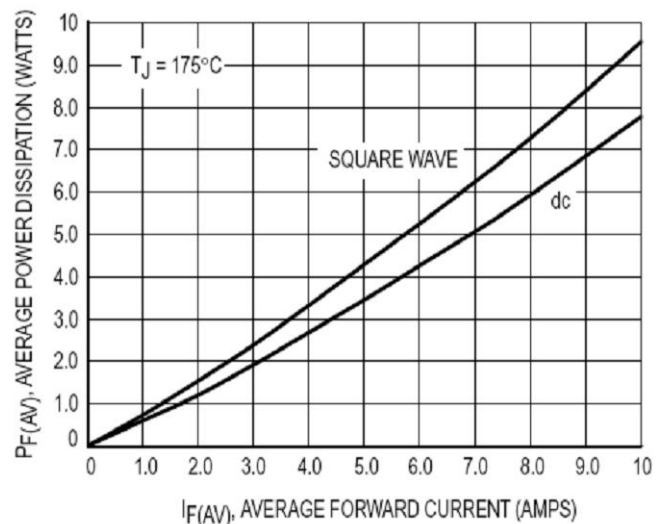


Figure 3 Current Derating, Case

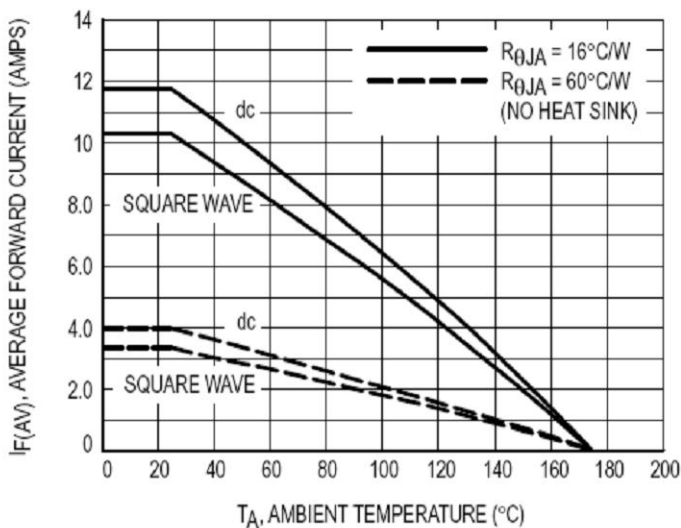


Figure 4 Current Derating, Ambient

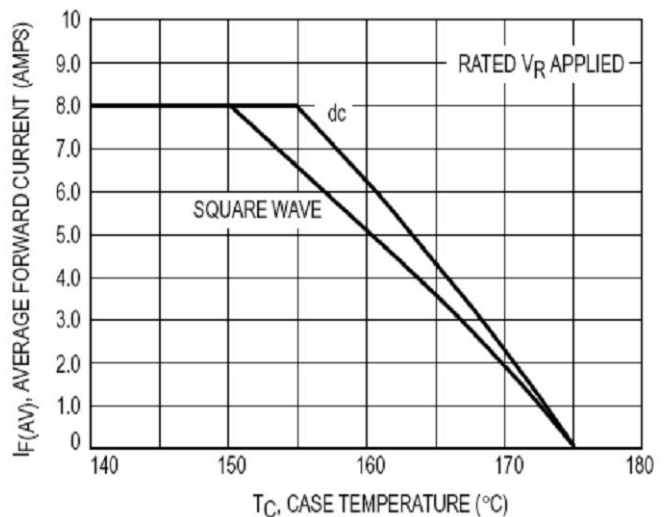
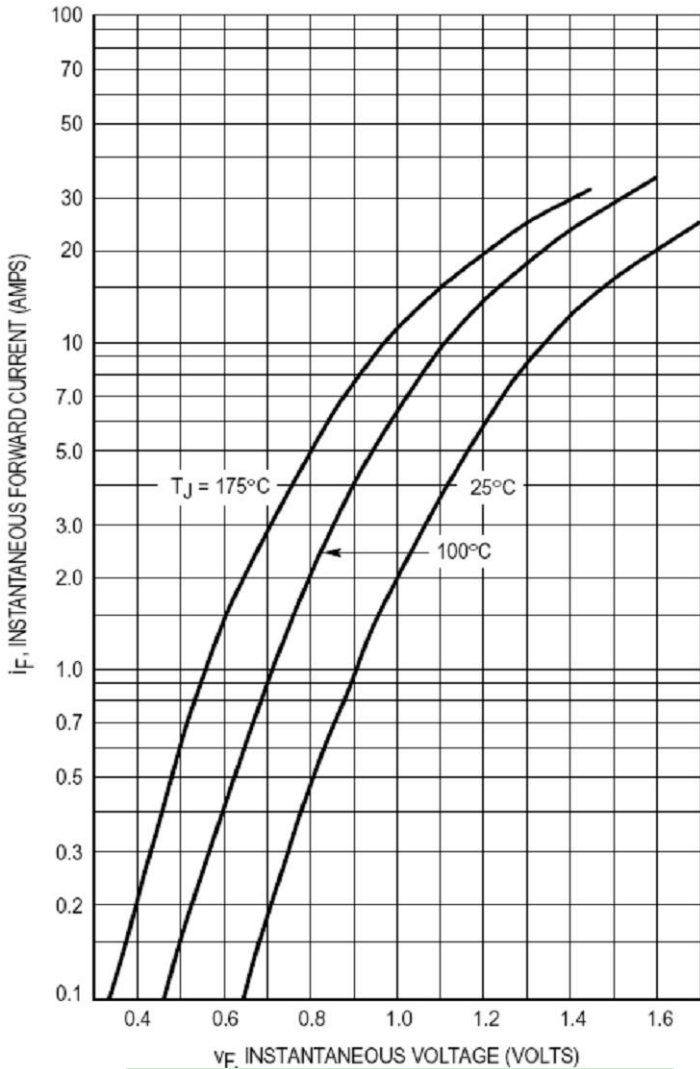
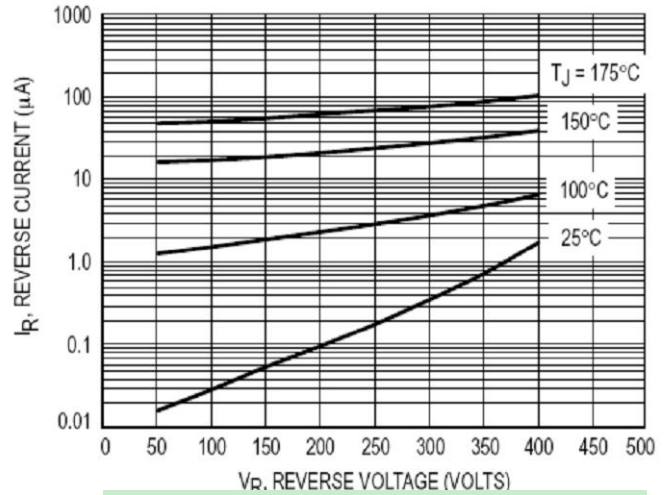


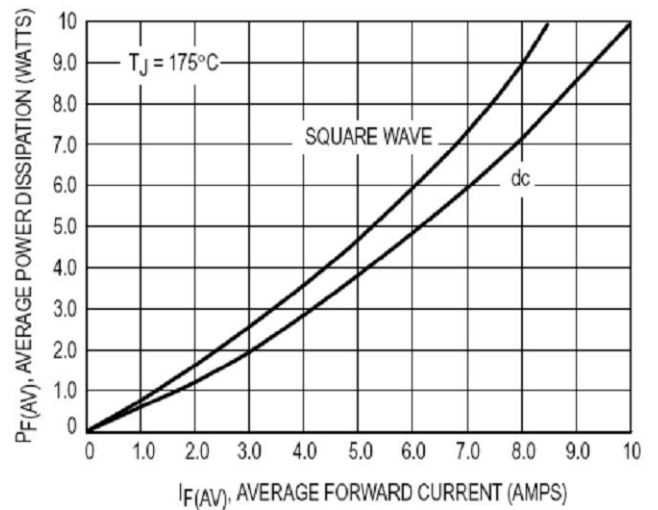
Figure 5 Power Dissipation



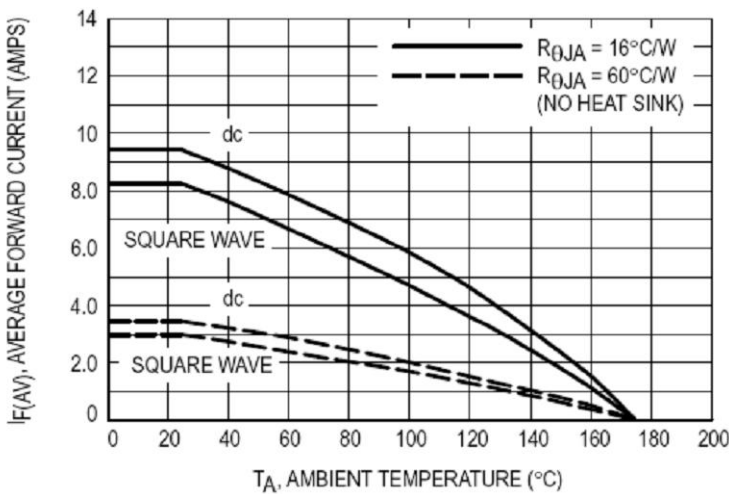
**Figure 1. Typical Forward Voltage**



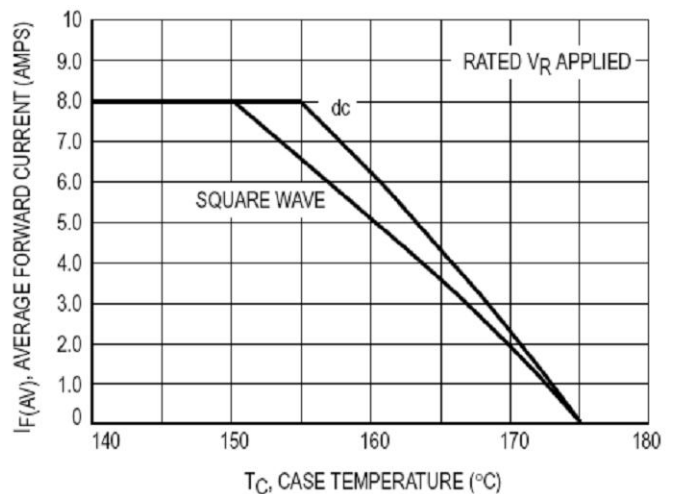
**Figure 2. Typical Reverse Current**



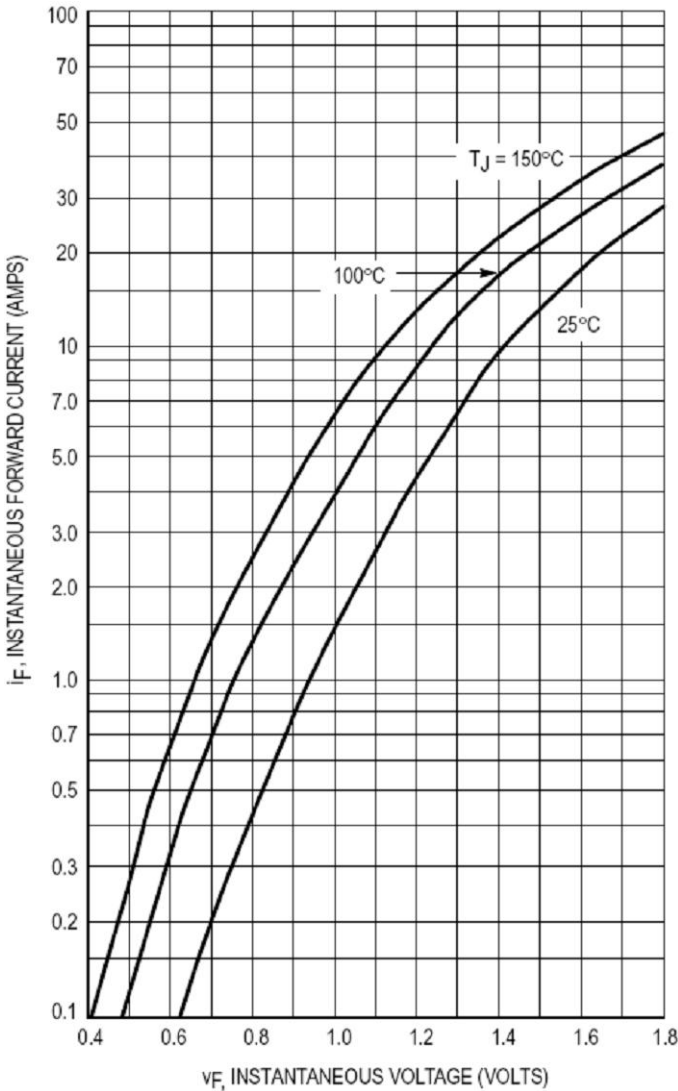
**Figure 3. Current Derating, Case**



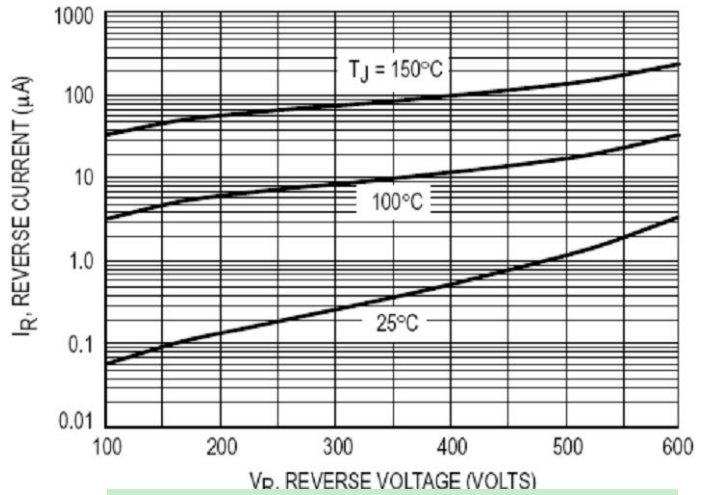
**Figure 4. Current Derating, Ambient**



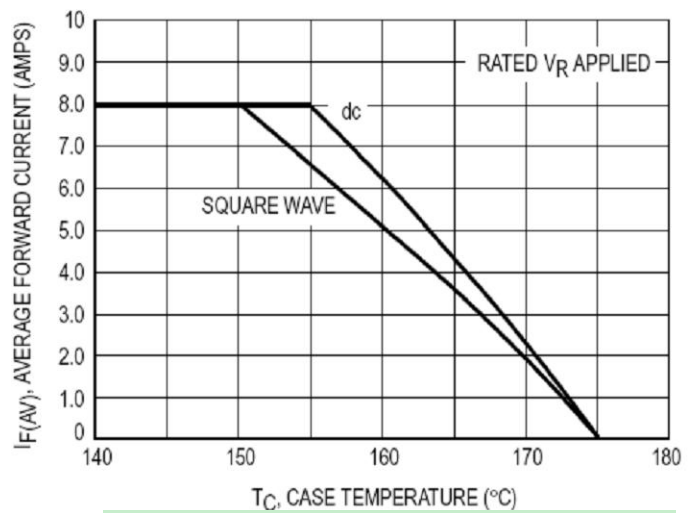
**Figure 5. Power Dissipation**



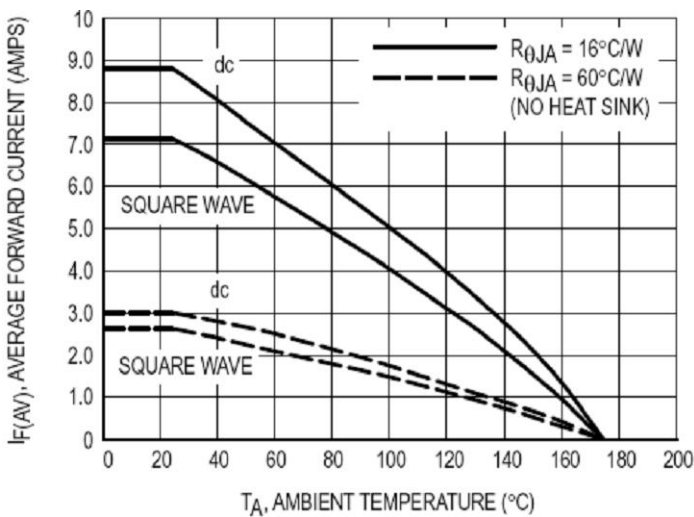
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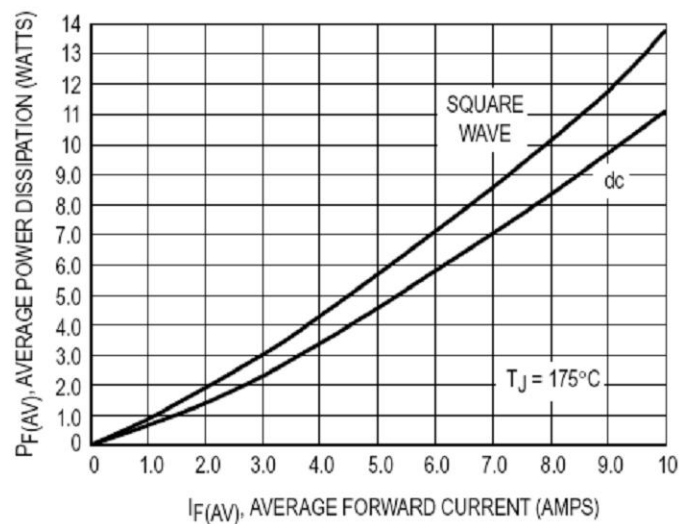
**Figure 2. Typical Reverse Current**



**Figure 3. Current Derating, Case**

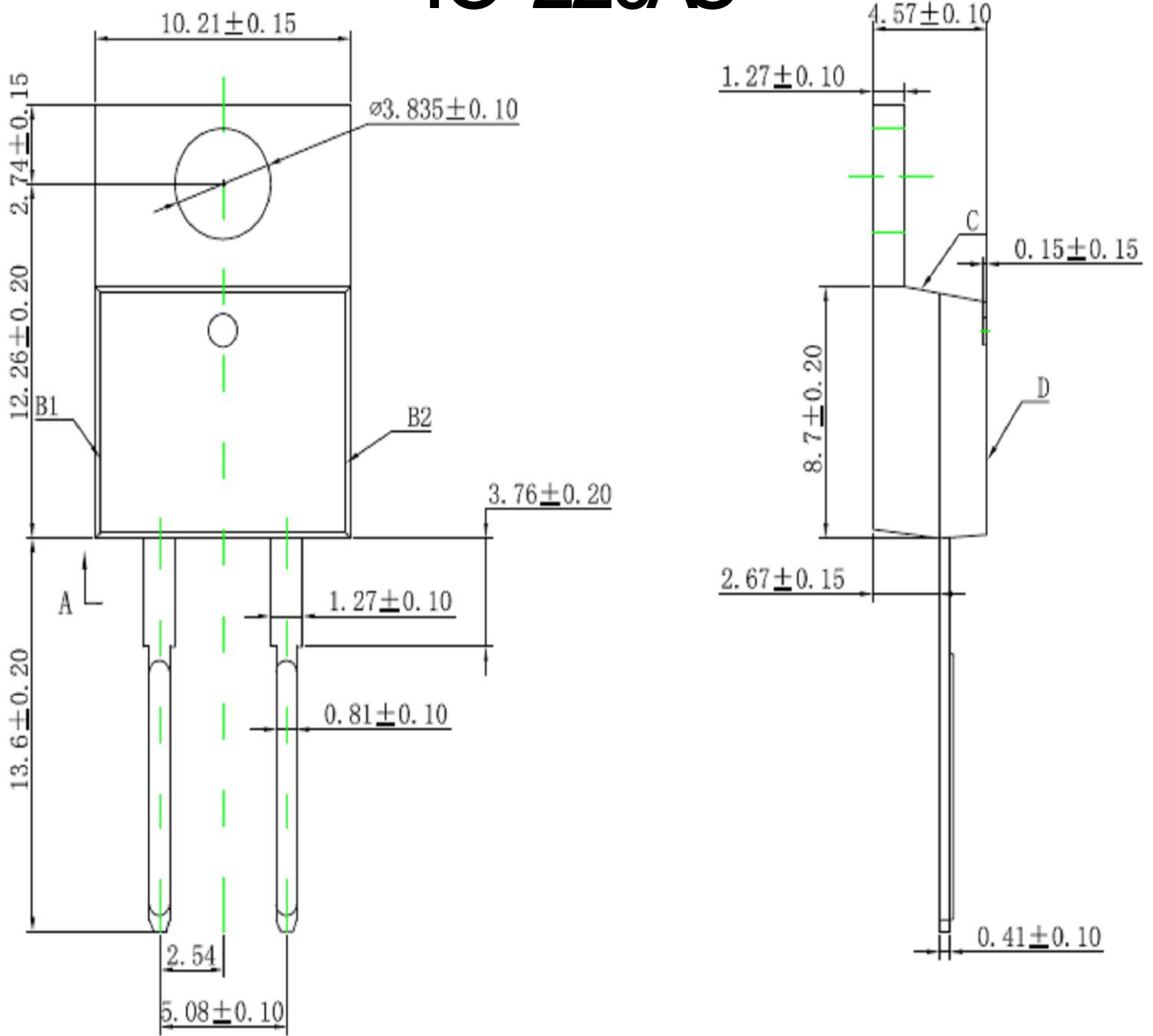


**Figure 4. Current Derating, Ambient**



**Figure 5. Power Dissipation**

# TO-220AC

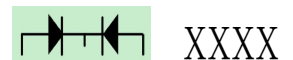


注意事项:

- 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: 2009年第一月生产的，D/C为9AXX。
- 包装及出货: ROHS, 30PCS/管, 0.6K/BOX, 1.8K (1.8K BOXEX) /CARTON, BOXEX及 CARTON。



SF806A



修订内容