

SUPER-FAST RECOVERY RECTIFIERS

Features	Ultrafast 35 Nanosecond Recovery Time 175° C Operating Junction Temperature Popular TO-220 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)= 10A VRRM= 400V IF(AV)= 10A
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)=10A

MAXIMUM RATINGS

Rating	Symbol	1002	1004	1006	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	Rθjc	3.0	2.0	W
--	------	-----	-----	---

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 Cycles ≤ 2.0%.

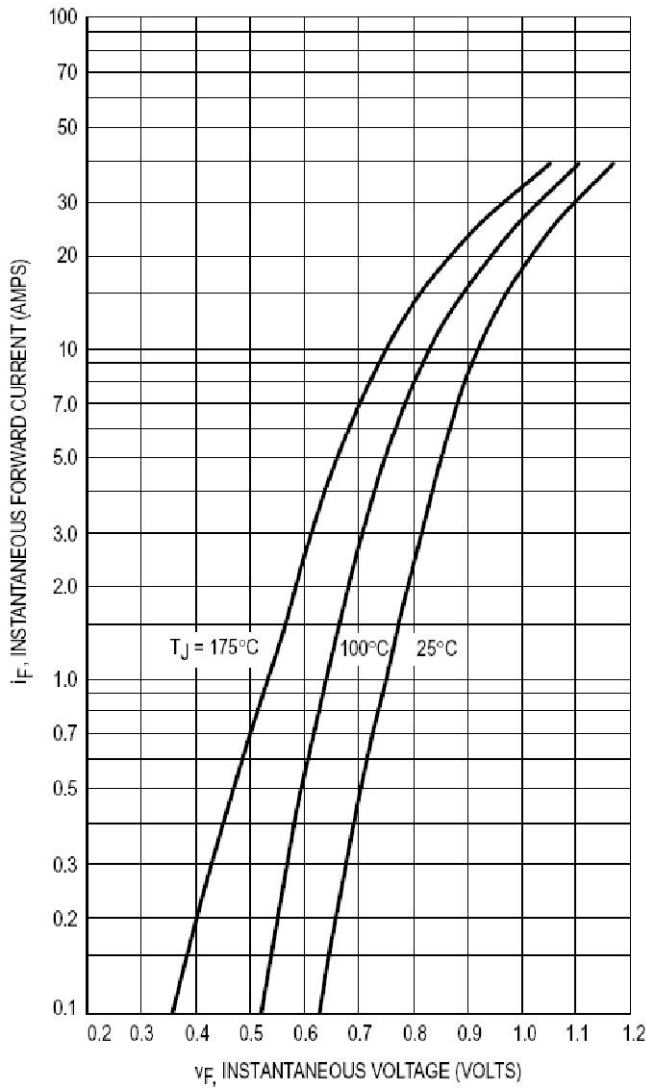


Figure 1. Typical Forward Voltage

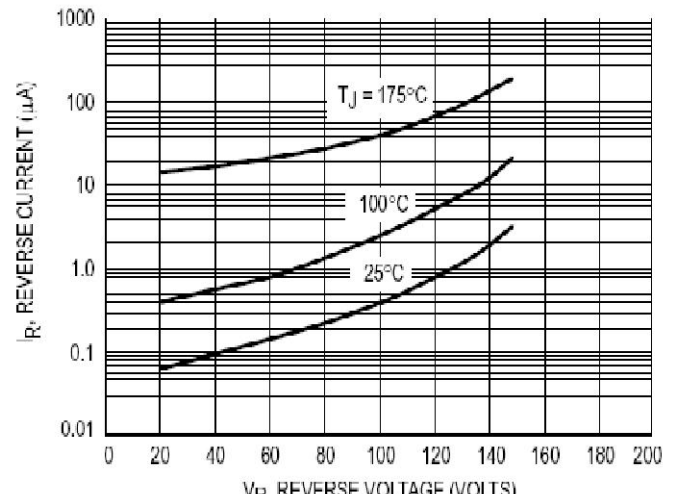


Figure 2. Typical Reverse Current

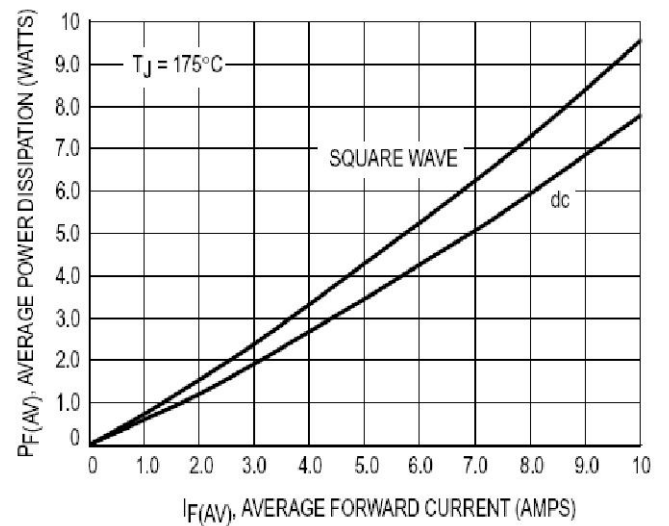


Figure 3. Current Derating, Case

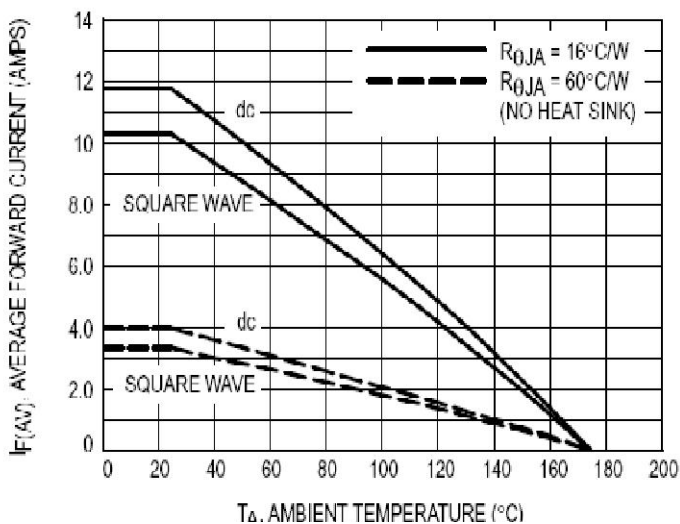


Figure 4. Current Derating, Ambient

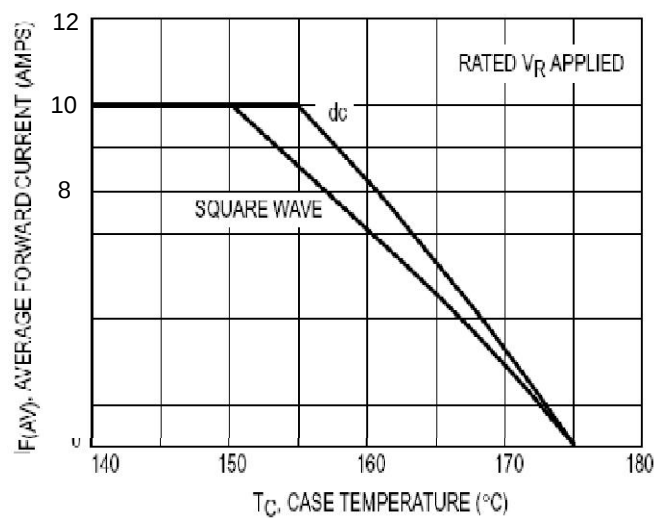


Figure 5. Power Dissipation

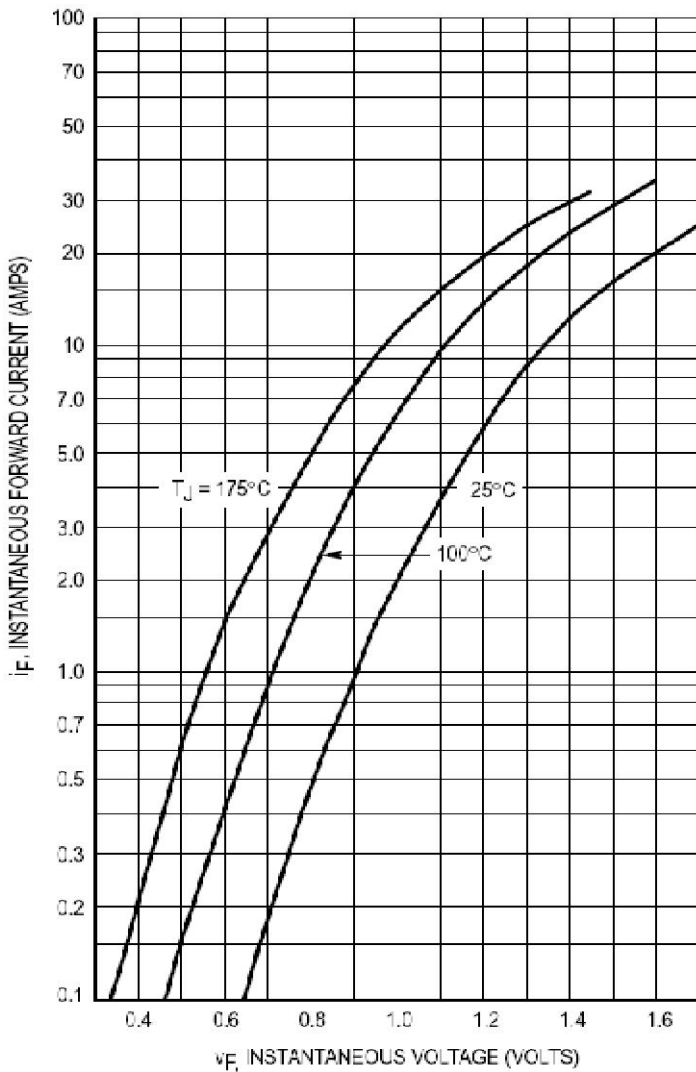


Figure 1. Typical Forward Voltage

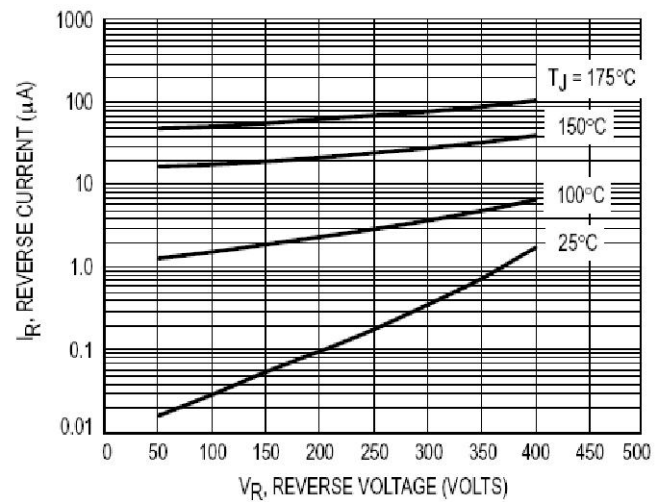


Figure 2. Typical Reverse Current

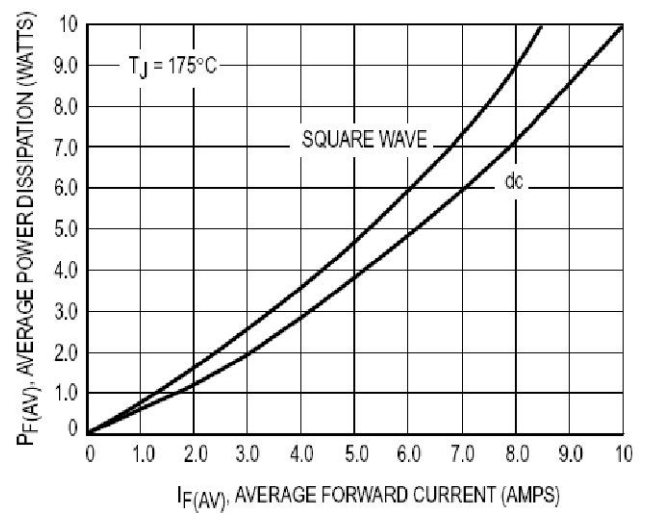


Figure 3. Current Derating, Case

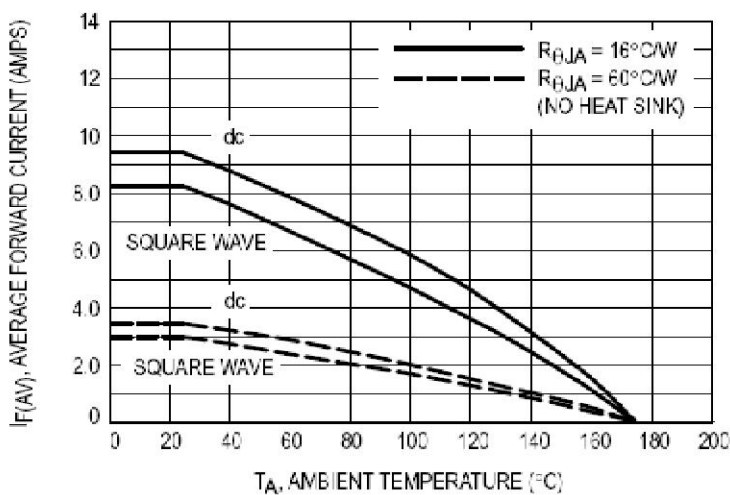


Figure 4. Current Derating, Ambient

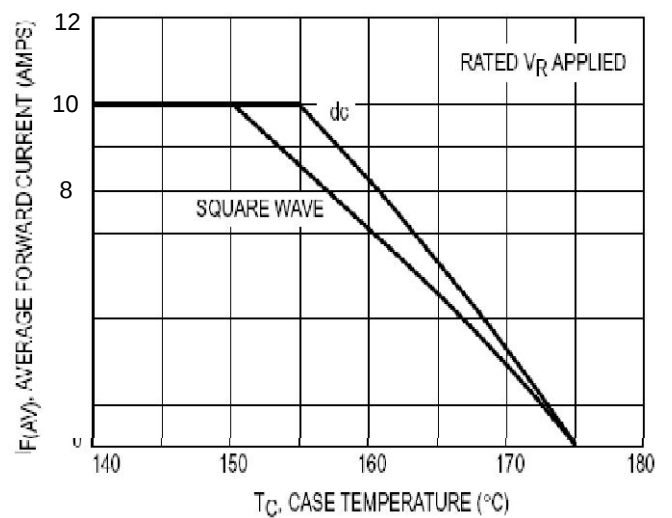


Figure 5. Power Dissipation

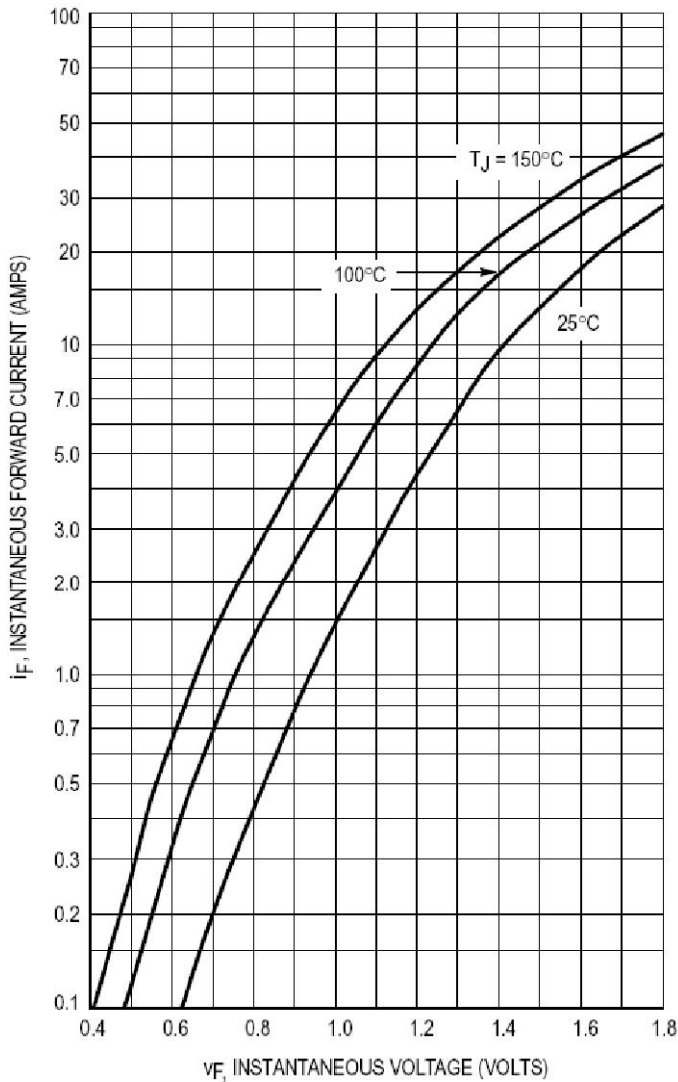


Figure 1. Typical Forward Voltage

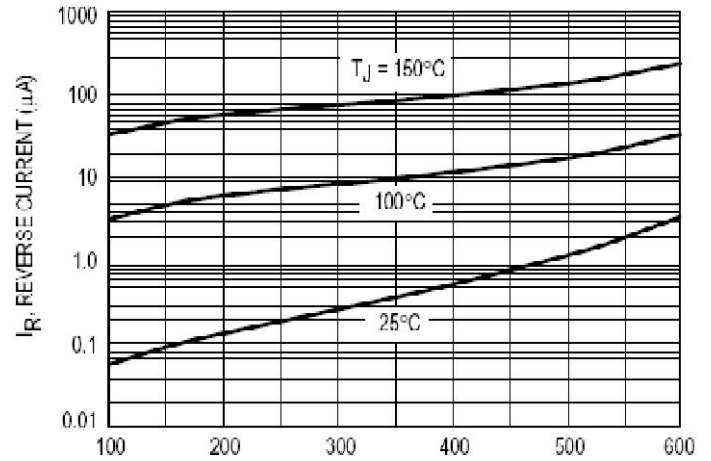


Figure 2. Typical Reverse Current

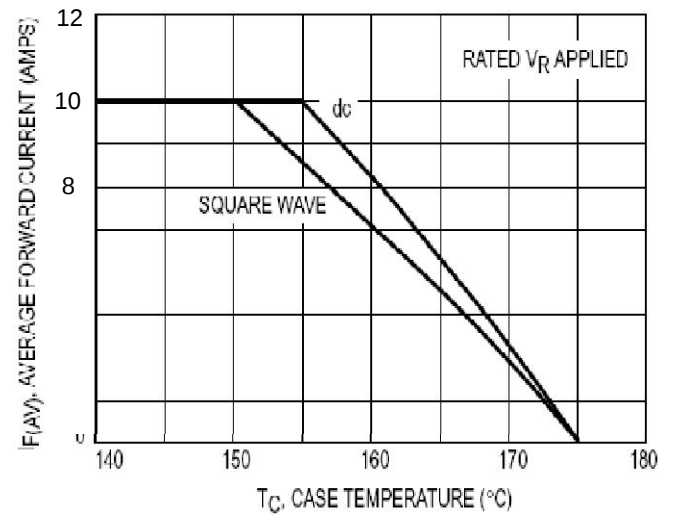


Figure 3. Current Derating, Case

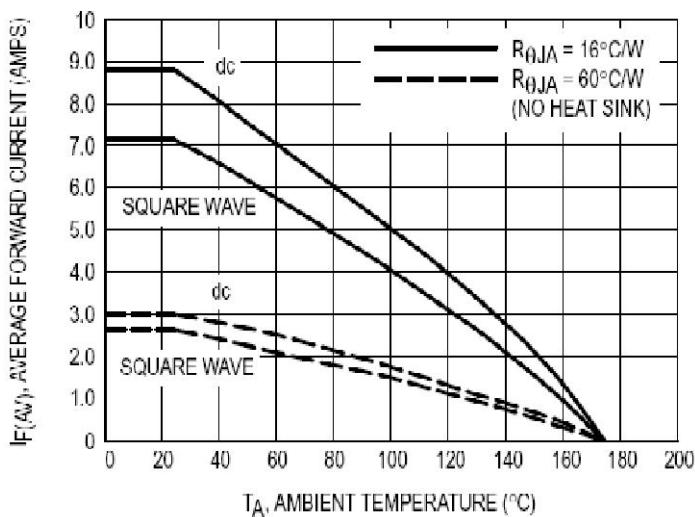


Figure 4. Current Derating, Ambient

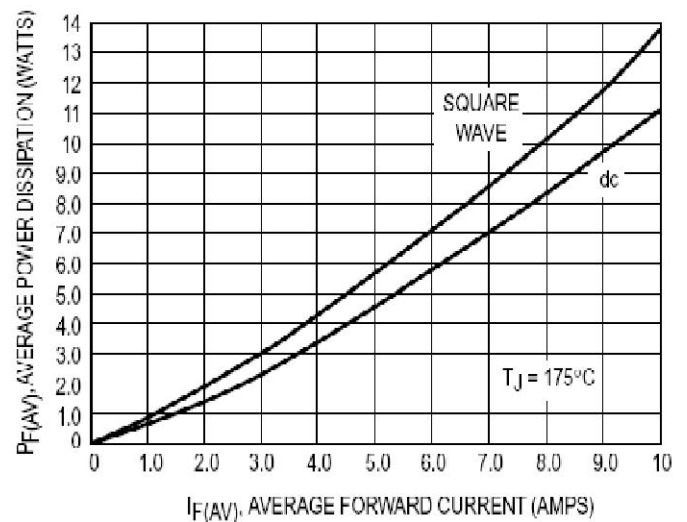
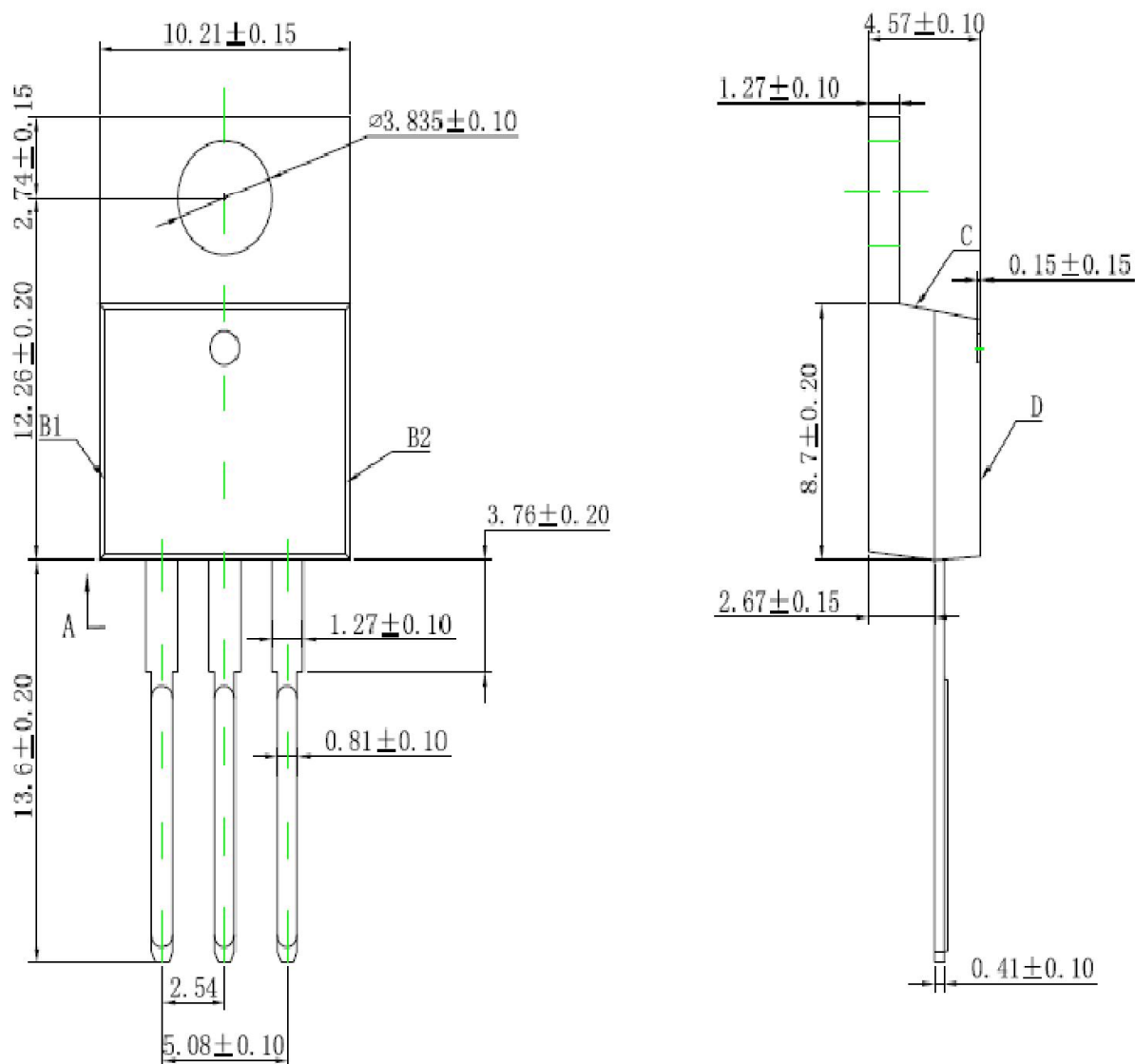


Figure 5. Power Dissipation

TO-220AB

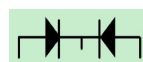


注意事项:

- 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, 50PCS/管, 1K/BOX, 5K (5K BOXEX) /CARTON, BOXEX及 CARTON。

ASEMI

SFF1006



XXXX

修订内容