SUPER-FAST RECOVERY RECTIFIERS

Features

- Ultrafast 35 Nanosecond Recovery Time
- 175° C Operating Junction Temperature
- Popular TO-220AB 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)= 20A

VRRM= 400V
IF(AV)= 20A

VRRM= 600V
IF(AV)=20A

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

MAXIMUM RATINGS

Rating	Symbol	2002	2004	2006	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	400	600	V
Average Rectified Forward Current Total Device, (Rated VR), TC = 150°C	IF(AV)	10 20			A
Peak Repetitive Forward Current (Rated VR, Square Wave, 20 kHz), TC = 150°C	IFM	16			A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave , single phase, 60 Hz	IFSM	100			A
Operating Junction Temperature and Storage Temperatur	TJ, Tstg	– 40 to +175			°C

THERMAL CHARACTERISTICS (Per Diode Leg)

Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	3.0	2.0	°C /W

ELECTRICAL CHARACTERISTICS(Per Diode Leg)

Maximum Instantaneous Forward Voltage (1) (IF = 8.0 Amps, TC = 25° C)	VF	1.1	1.4	1.5	V
Maximum Instantaneous Reverse Current (1)	IR				μA
(Rated dc Voltage, TJ = 150° C)		800	800	800	
(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 = 300μs, Duty Cycle≤ 2.0%.

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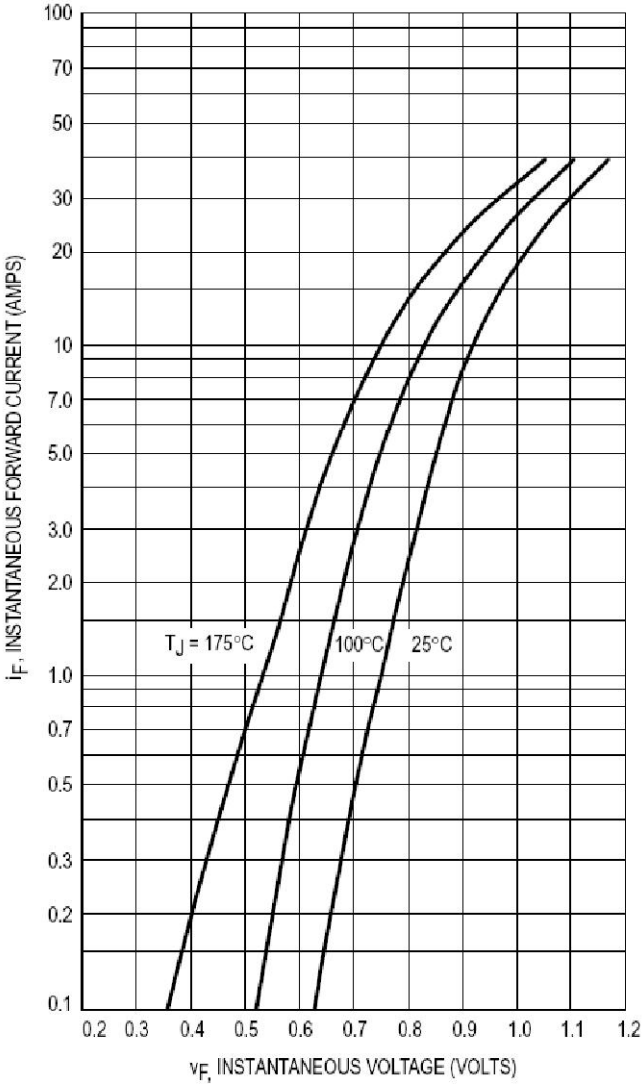


Figure 1.Typical Forward Voltage

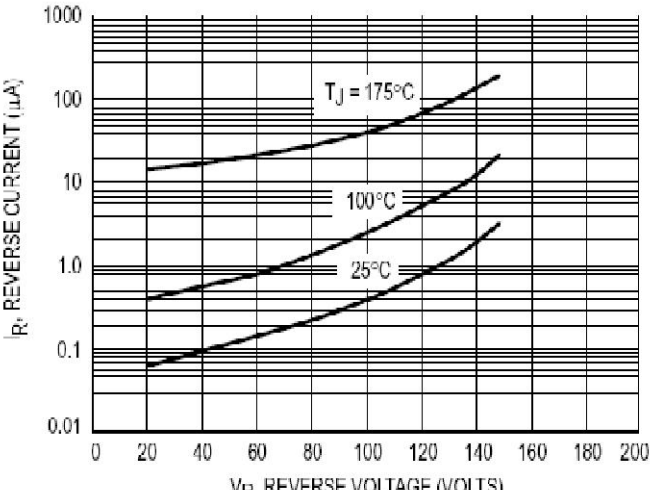


Figure 2.Typical Reverse Current

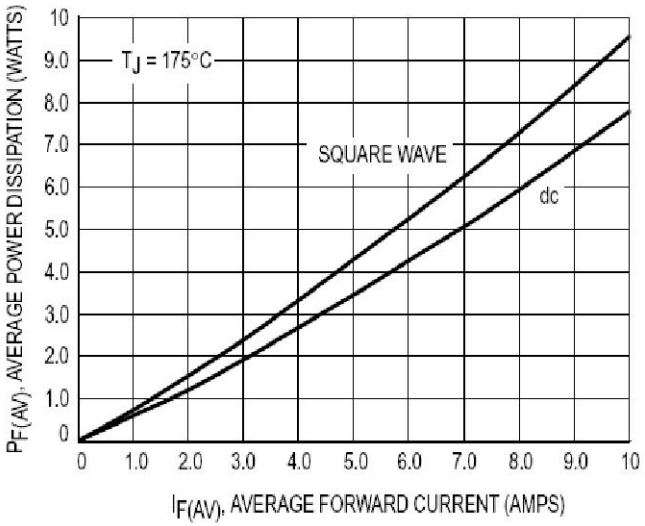


Figure 3.Current Derating, Case

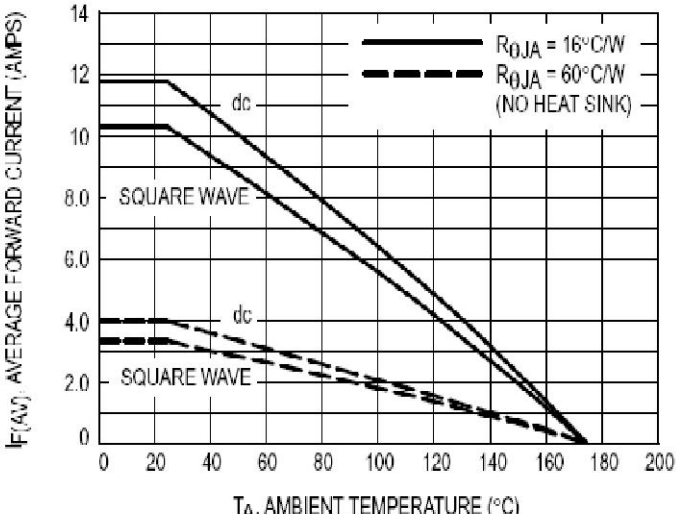


Figure 4.Current Derating,Ambient

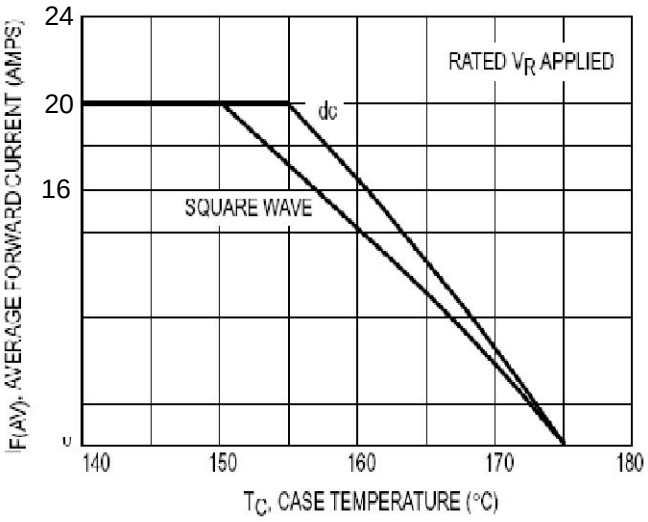


Figure 5.Power Dissipation

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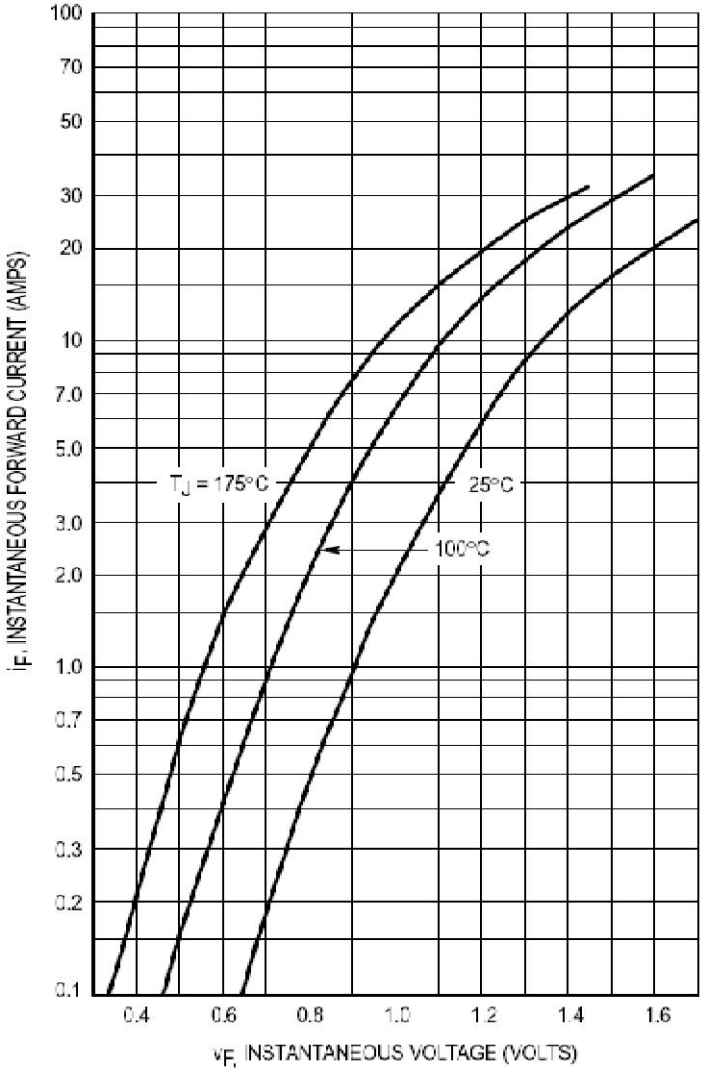


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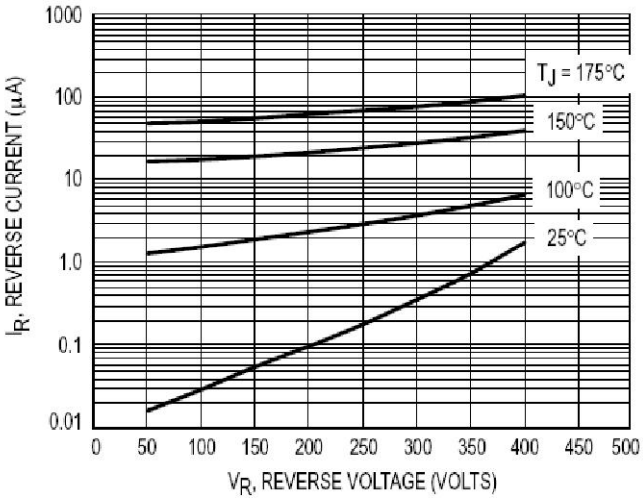


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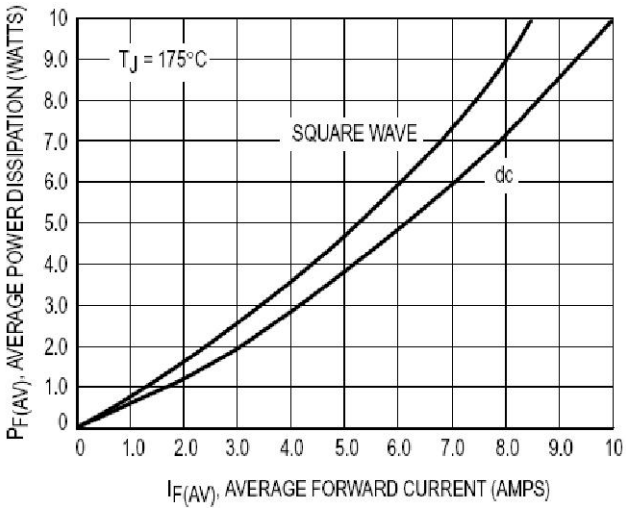


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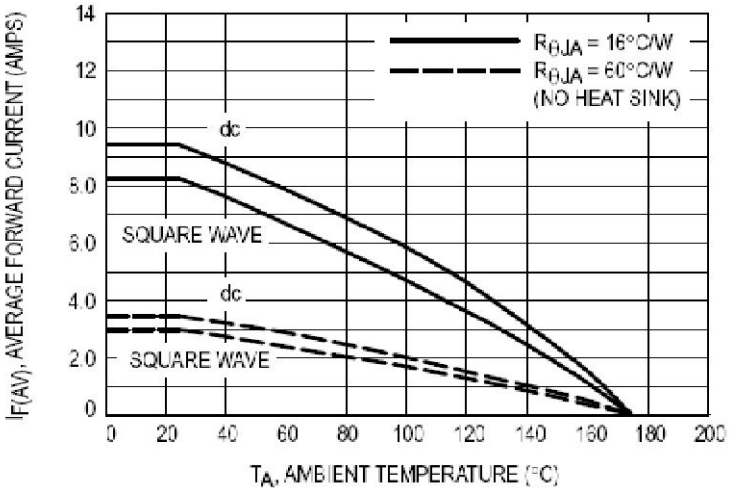


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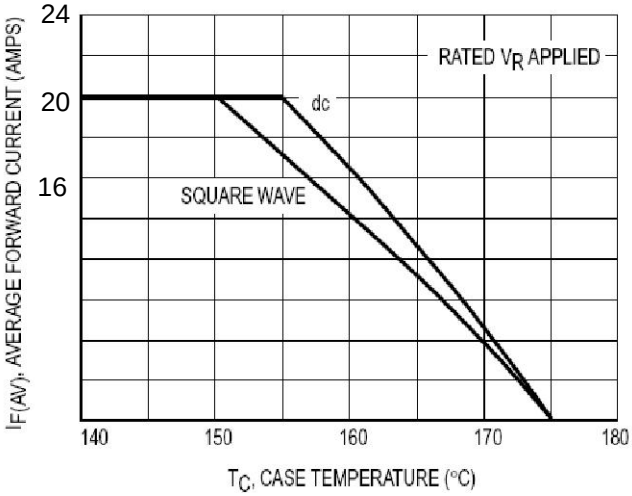


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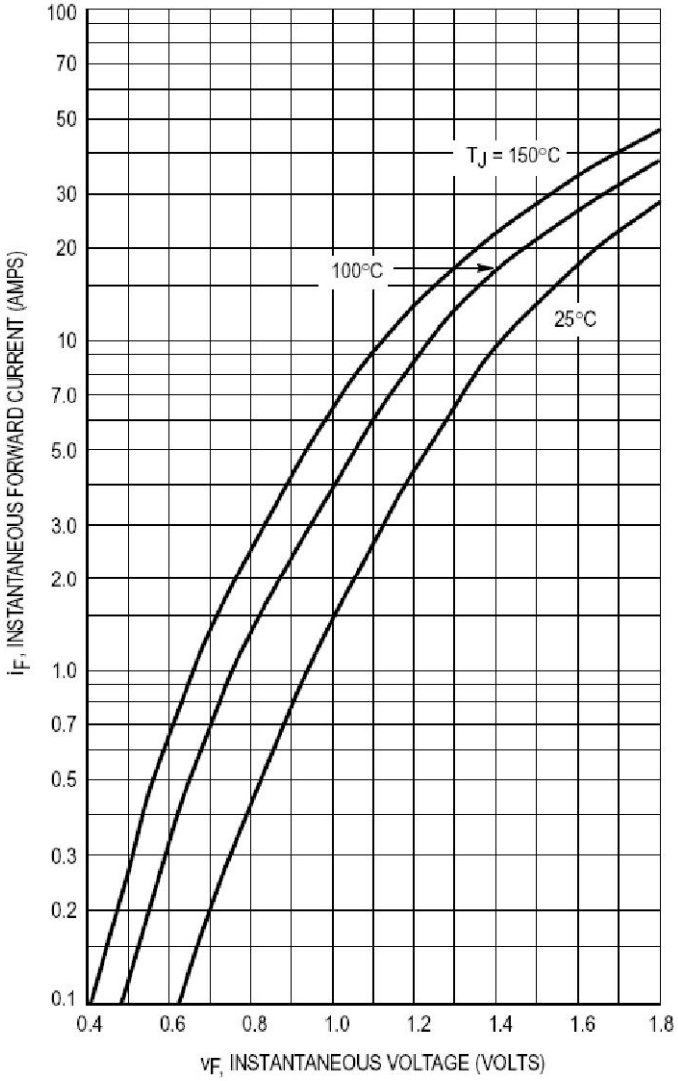


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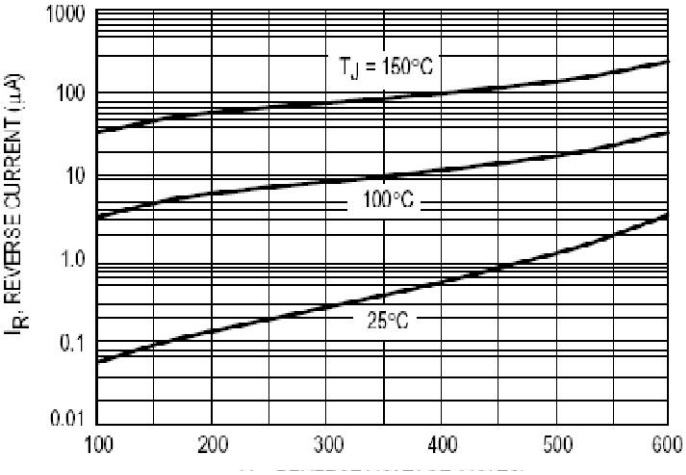


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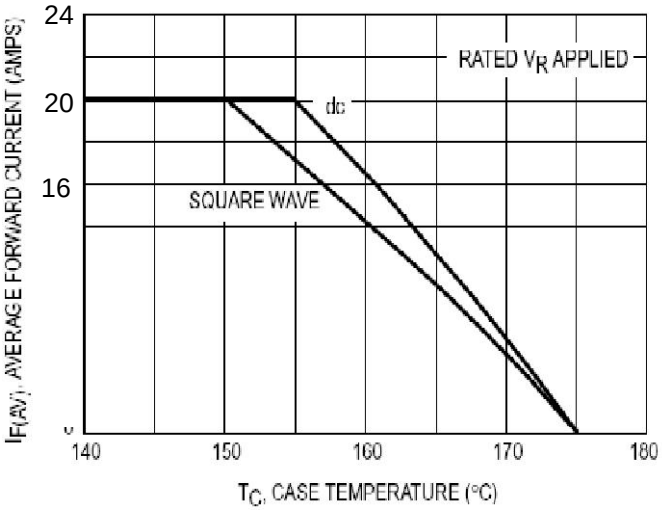


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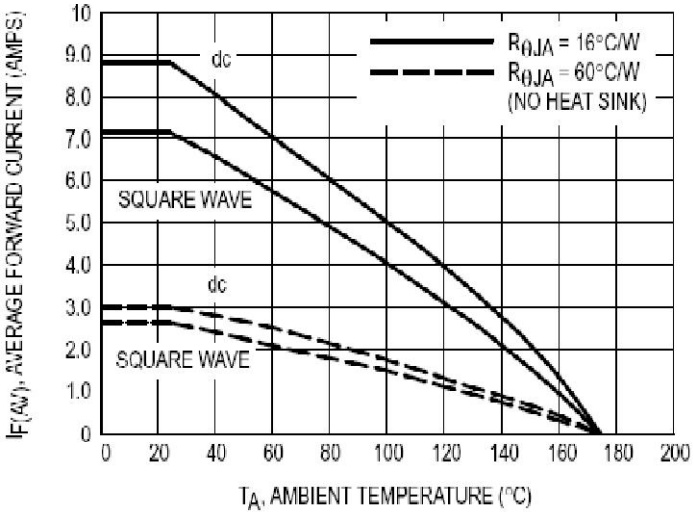


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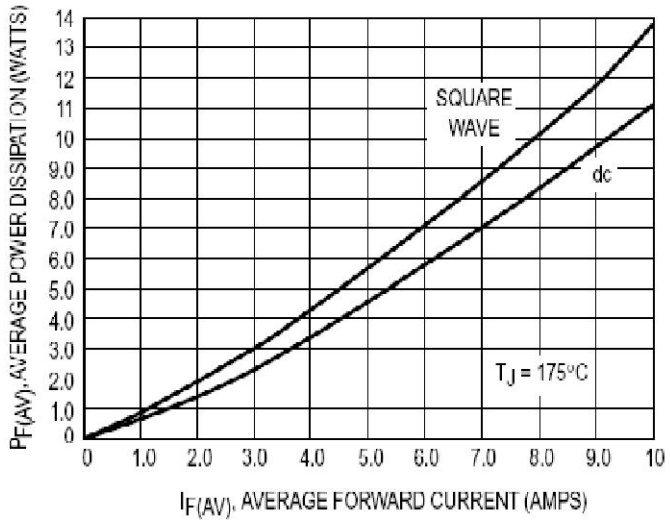
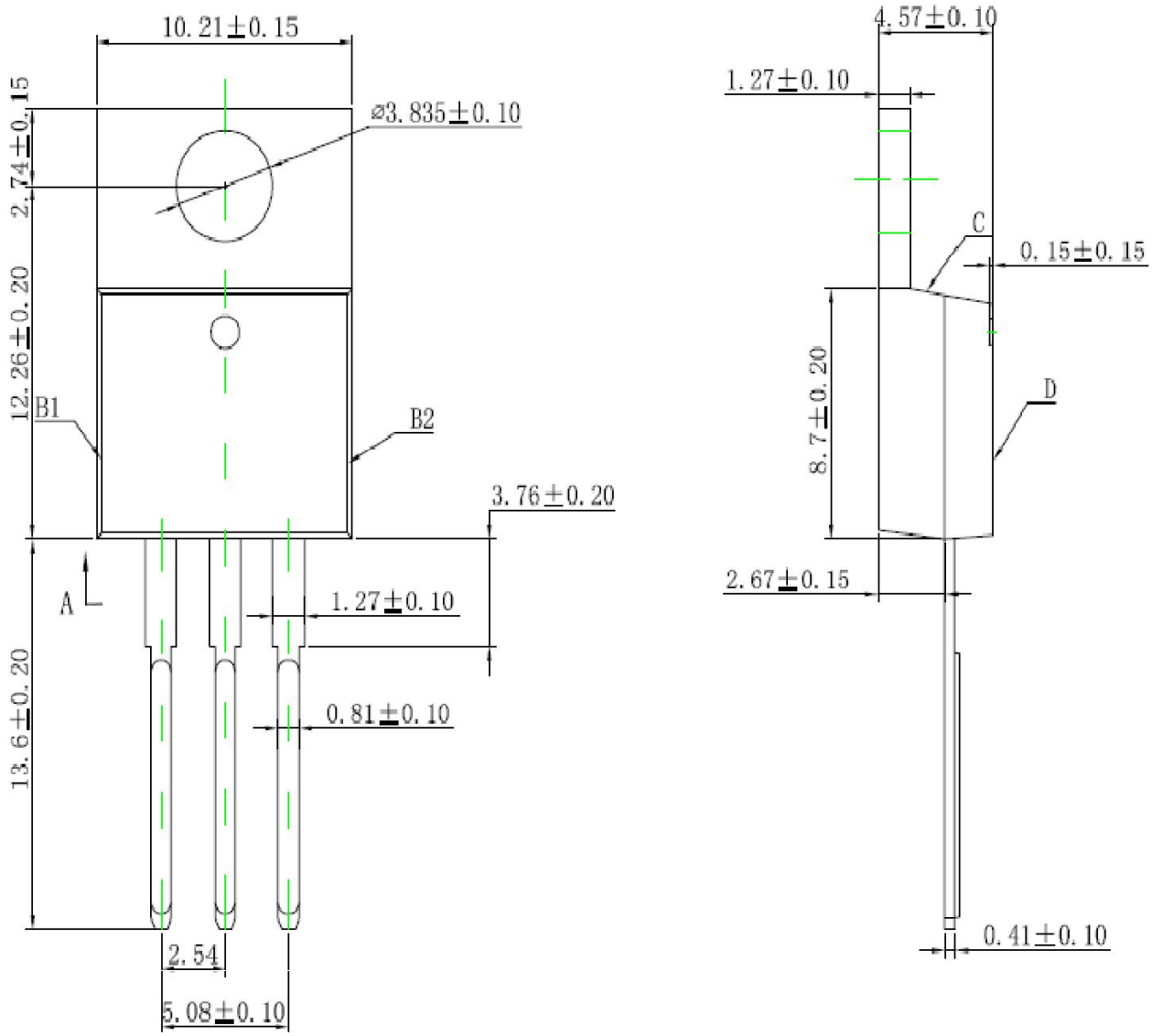


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TO-220AB



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:2009年第一月生产的，D/C为9AXX。
2. 包装及出货:ROHS,50PCS/管,1K/BOX,5K(5K BOXEX)/CARTON, BOXEX及CARTON。

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修订内容