

LOW LOSS SUPER HIGH SPEED RECTIFIER

REV: 1.01

Features	<ul style="list-style-type: none"> ◆ Ultrafast 35 Nanosecond Recovery Time ◆ 175° C Operating Junction Temperature ◆ Popular TO-247 Package ◆ Low VF ◆ High Temperature Glass Passivated Junction ◆ Low Forward Voltage ◆ Low Leakage Current ◆ Reverse Voltage to 200 Volts ◆ Pb-Free Packages are Available 	Typical Reference Data VRRM= 200V IF(AV)= 20A
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APPLICATIONS	<ul style="list-style-type: none"> ● High speed power switching ● Plating Power Supply ● Converter & Chopper ● Inversion Welder ● PFC ● Ultrasonic Cleaner and Welder
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MAXIMUM RATINGS

Rating	Symbol	D92-02		Unit
Peak Repetitive Reverse Voltage	VRRM			
Working Peak Reverse Voltage	VRWM	200		V
DC Blocking Voltage	VR			
Average Rectified Forward Current Total Device, (Rated VR), TC = 110°C	IF(AV)	10 20		A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 50 Hz)	IFSM	100		A
Operating Junction Temperature and Storage Temperature	TJ, Tstg	- 40 to +150		°C

THERMAL CHARACTERISTICS (Per Diode Leg)

Maximum Thermal Resistance, Junction to Case	R _θ JC	1.5	°C/W
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ELECTRICAL CHARACTERISTICS (Per Diode Leg)

Maximum Instantaneous Forward Voltage (1) (IF = 10 Amps, TC = 25° C)	VF	0.94			V
Maximum Instantaneous Reverse Current (1) (Rated dc Voltage, TJ = 150° C)	IR	800 10	800 10	800 10	μ A
(Rated dc Voltage, TJ = 25° C)					
Maximum Reverse Recovery Time (IF = 0.5 A, IR = 1.0 A, IREC = 0.25 A)	Tr _{rr}	35			ns

(1) Pulse Test: Pulse Width = 300μ s, Duty Cycle≤2.0%.

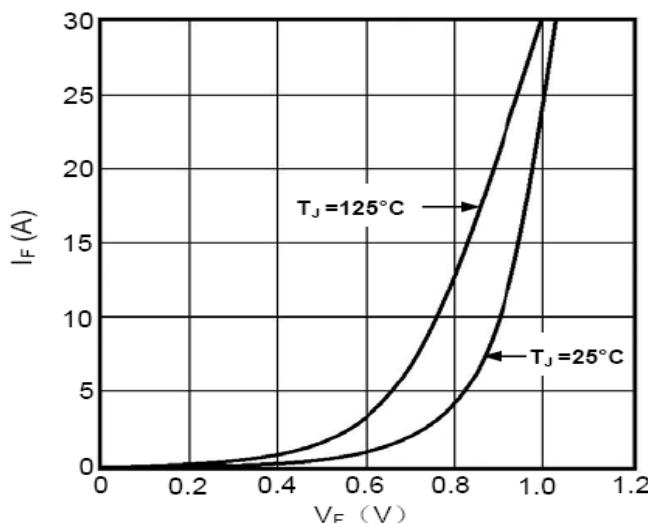


Fig1. Forward Voltage Drop vs Forward Current

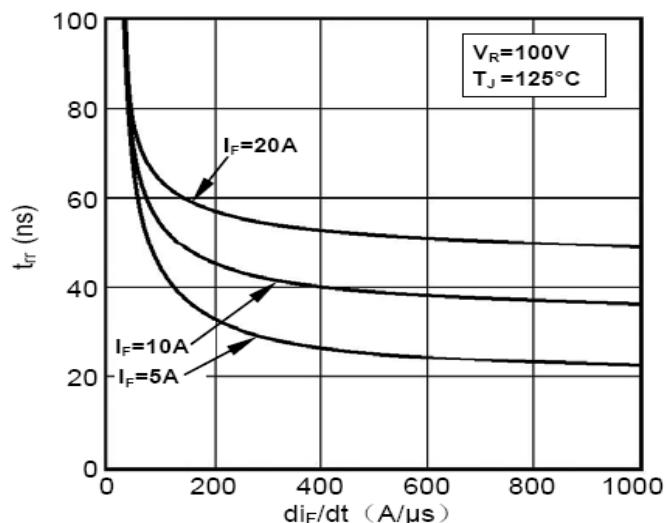


Fig2. Reverse Recovery Time vs di_F/dt

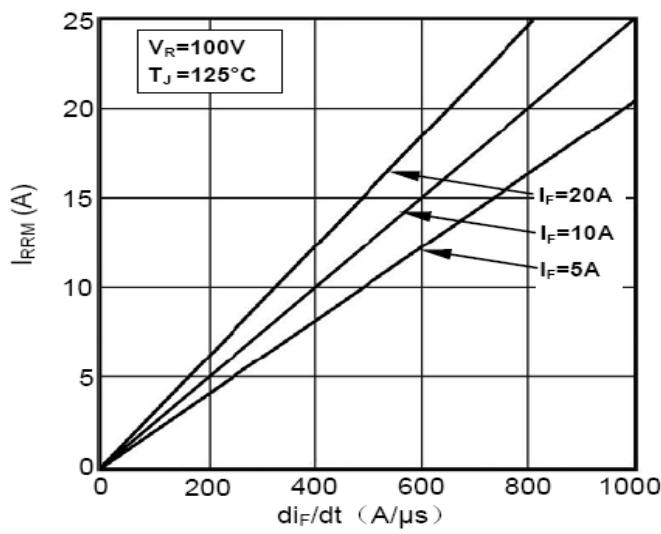


Fig3. Reverse Recovery Current vs di_F/dt

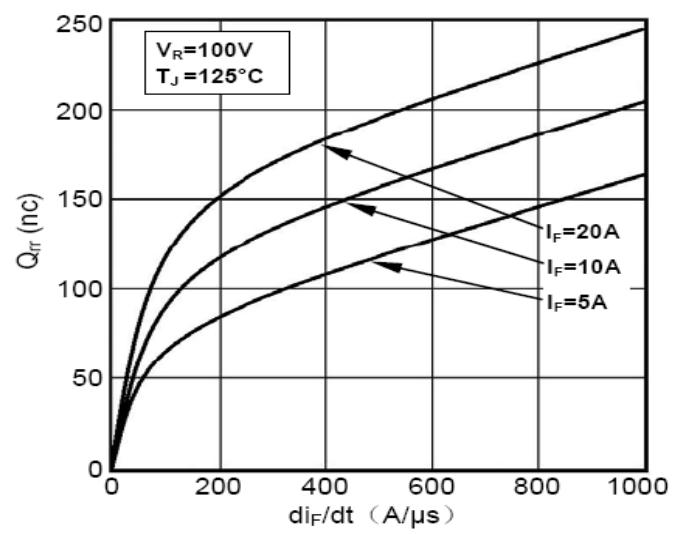


Fig4. Reverse Recovery Charge vs di_F/dt

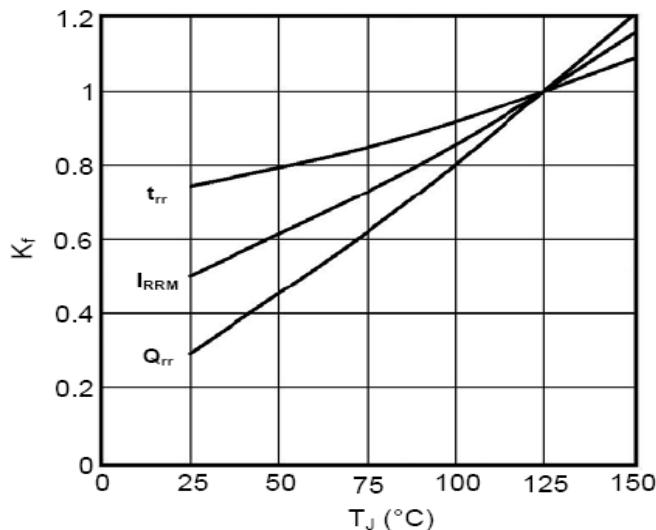


Fig5. Dynamic Parameters vs Junction Temperature

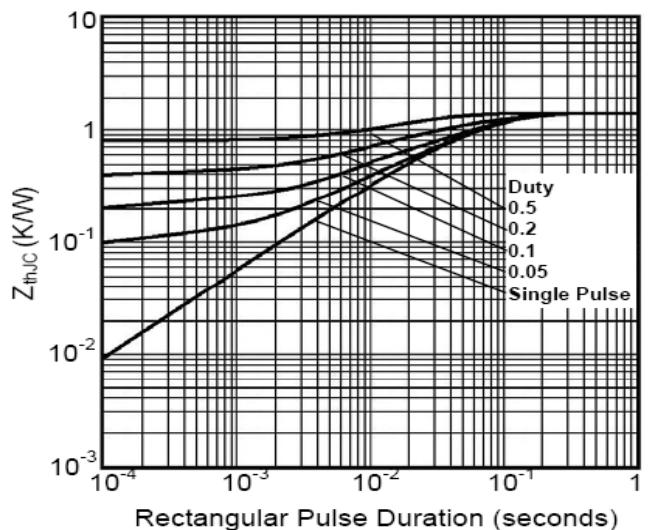
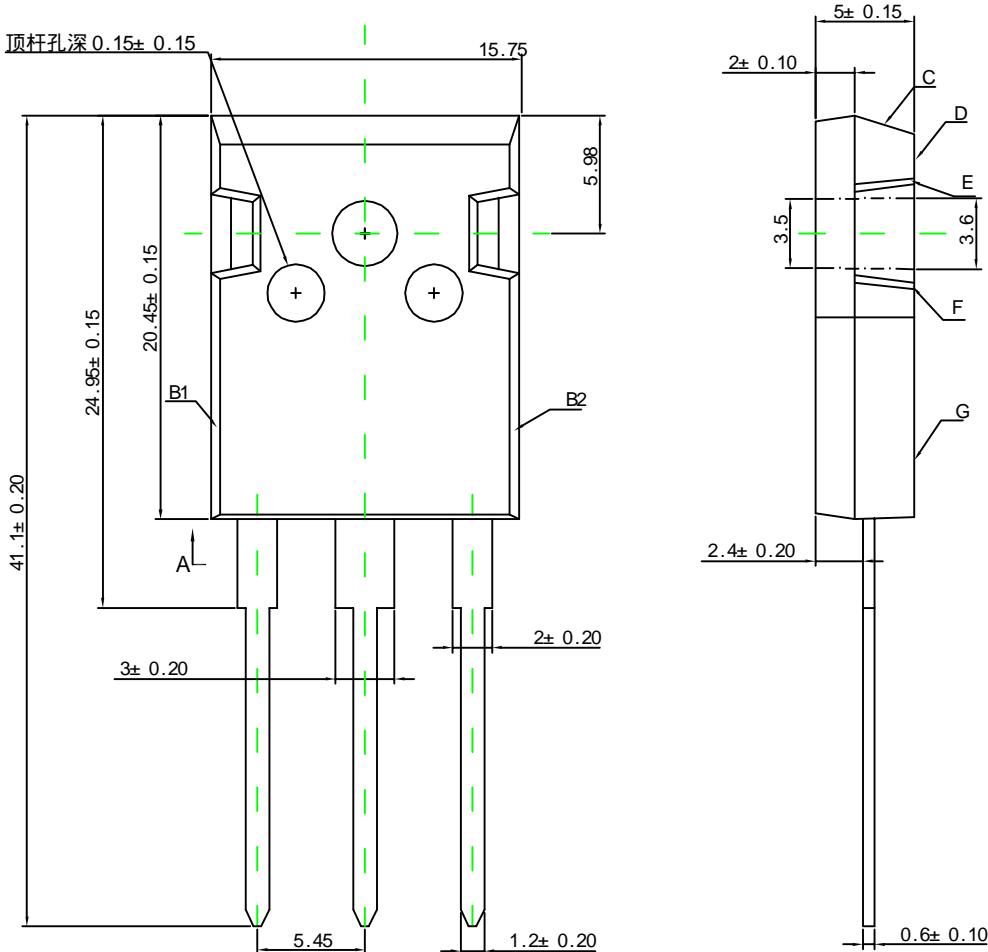


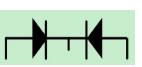
Fig6. Transient Thermal Impedance

TO-247



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, 30PCS/管, 0.6K/BOX, 1.8K(1.8K BOXEX) /CARTON, BOXEX及CARTON。

MHCHXM
D92-02
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修订内容