

SUPER-FAST RECOVERY RECTIFIERS

Features	◆ Ultrafast 35 Nanosecond Recovery Time
	◆ 150° C Operating Junction Temperature
	◆ Popular T0-247 Package
	◆ 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)= 30A

VRRM= 400V
IF(AV)= 30A

VRRM= 600V
IF(AV)= 30A

Mechanical Characteristics	● Case: Epoxy, Molded
	● 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	MUR3020	MUR3040	MUR3060	Unit
Peak Repetitive Reverse Voltage	VRRM	200	400	600	V
Working Peak Reverse Voltage	VRWM				
DC Blocking Voltage	VR				
Average Rectified Forward Current	IF(AV)	15			A
Total Device, (Rated VR), TC = 150°C		30			
Peak Repetitive Forward Current	IFM	21			A
(Rated VR, Square Wave, 20 kHz), TC = 150°C					
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave , single phase, 60 Hz)	IFSM	150			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	1.1	°C/W
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ELECTRICAL CHARACTERISTICS (Per Diode Leg)

Maximum Instantaneous Forward Voltage (1) (IF = 15.0 Amps, TC = 25° C)	VF	1.1	1.4	1.7	V
Maximum Instantaneous Reverse Current (1) (Rated dc Voltage, TJ = 150° C)	IR	500	500	500	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 = 300 μ s, Duty Cycle $\leq$ 2.0%.

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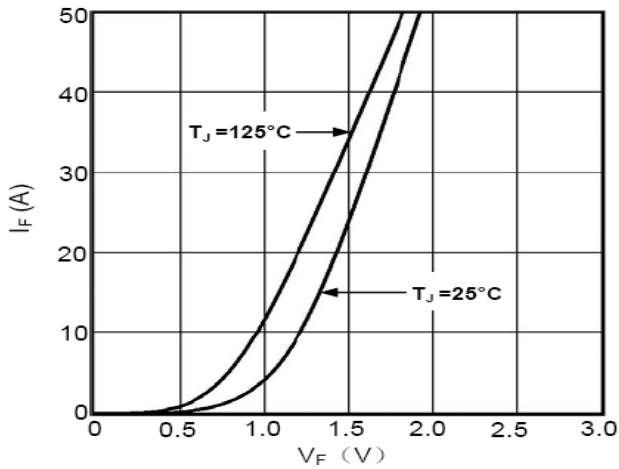


Fig1. Forward Voltage Drop vs Forward Current

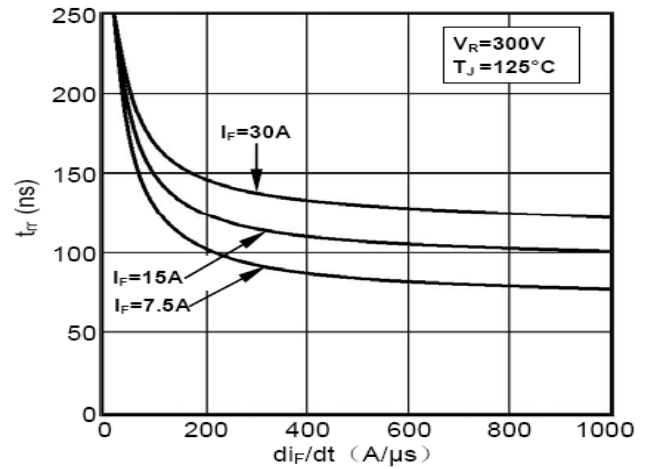


Fig2. Reverse Recovery Time vs di_F/dt

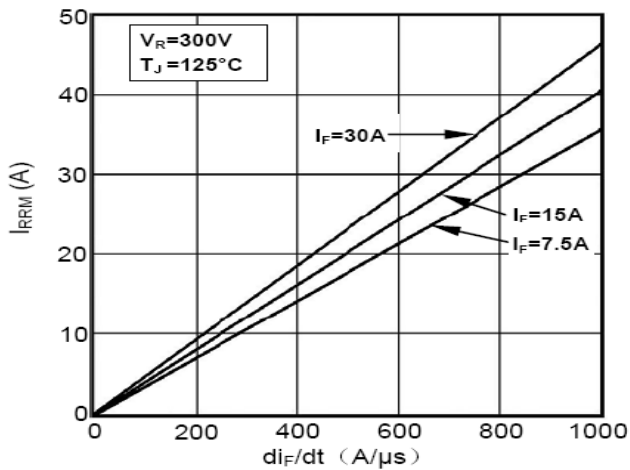


Fig3. Reverse Recovery Current vs di_F/dt

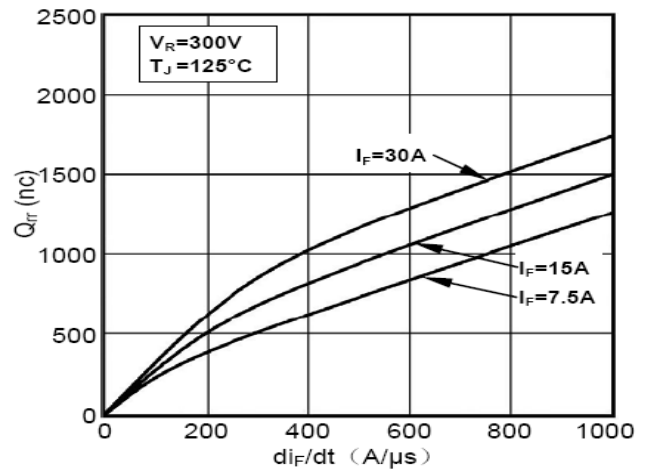


Fig4. Reverse Recovery Charge vs di_F/dt

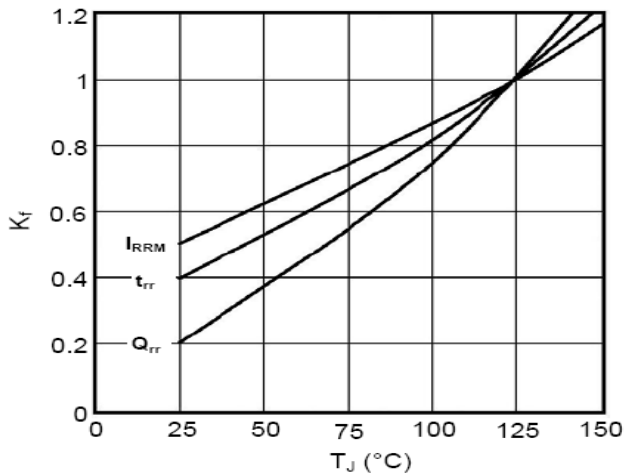


Fig5. Dynamic Parameters vs Junction Temperature

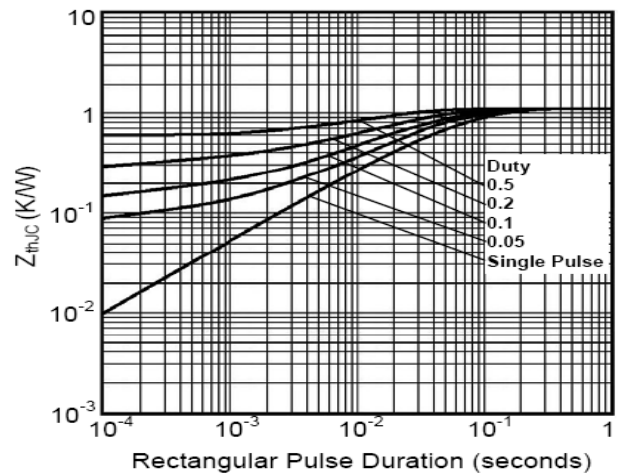
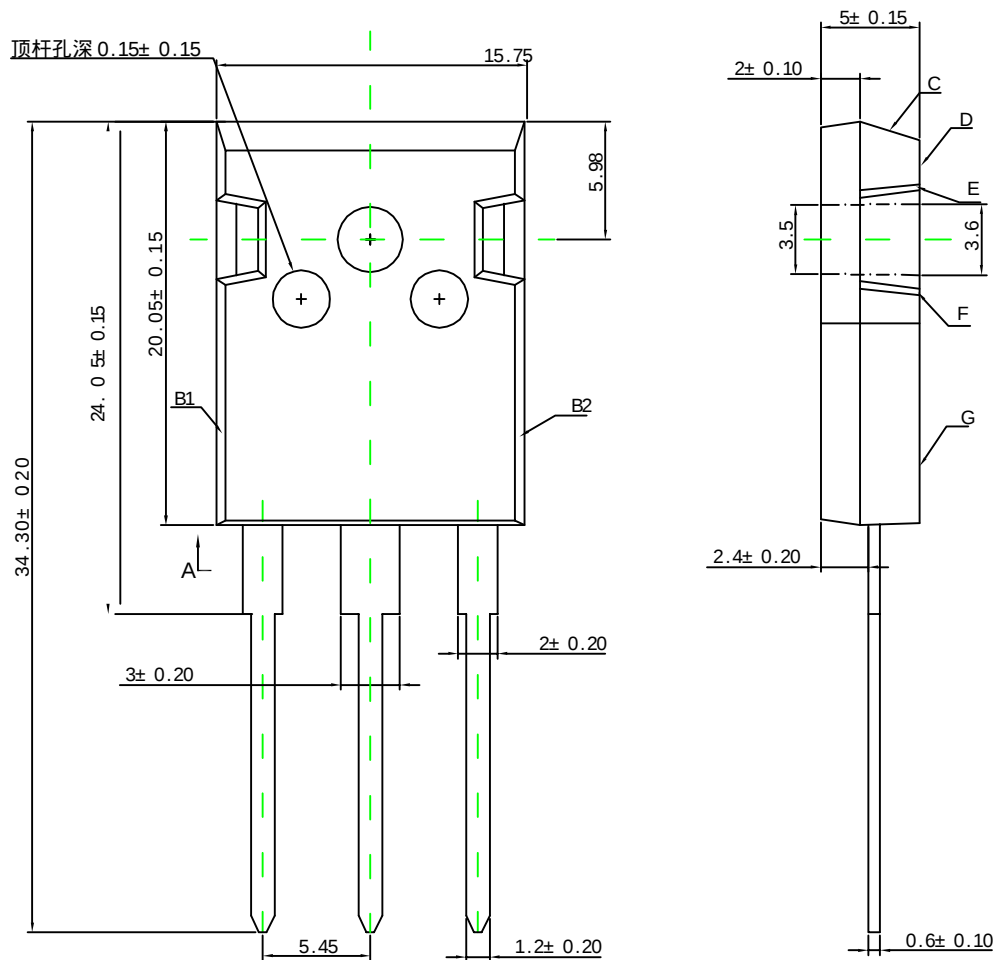


Fig6. Transient Thermal Impedance

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T0-247 /3PAB



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。



MUR3060PT



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修订内容