Technical Data Data Sheet 3470, Rev. B **Green Products**

MBR2050/2060CT-G MBRB2050/2060CT-G MBR2050/2060CT-1-G SCHOTTKY RECTIFIER

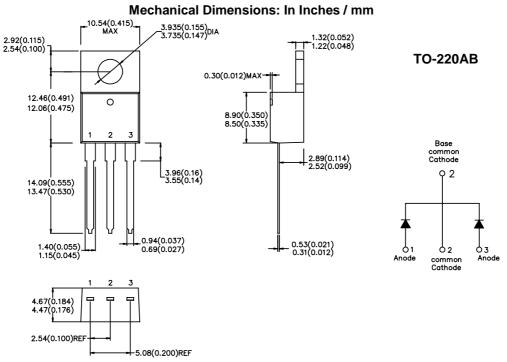
Applications:

• Switching power supply • Converters • Free-Wheeling diodes • Reverse battery protection

Features:

- 150 °C T_J operation
- Center tap configuration
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- . Guard ring for enhanced ruggedness and long term reliability

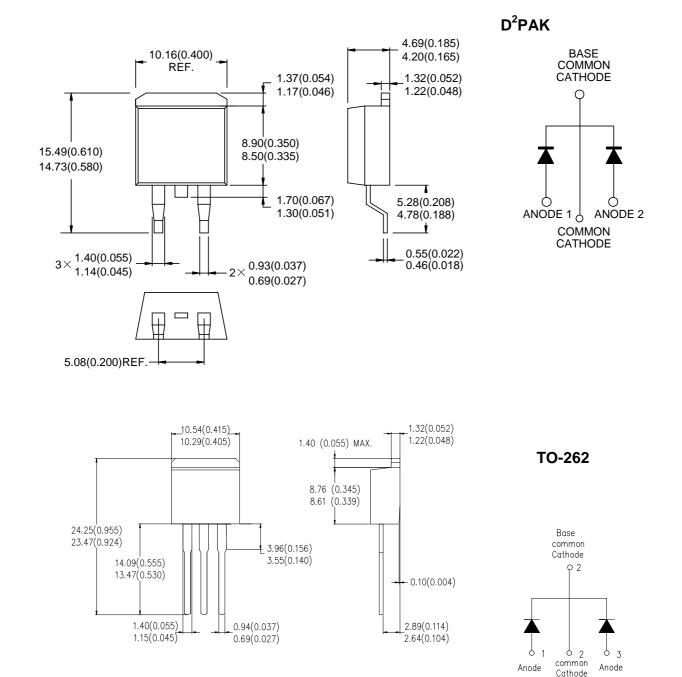




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 - World Wide Web Site http://www.sensitron.com E-Mail Address sales@sensitron.com •

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Green Products



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2.79(0.117) 2.29(0.090)

5.33(0.210)

4.83(0.190)

用电

4.57(0.180)

4.32(0.170)

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SENSITRON SEMICONDUCTOR

MBR2050/2060CT-G MBRB2050/2060CT-G MBR2050/2060CT-1-G

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Maximum Ratings:

Characteristics	Symbol	Condition		Max.	Units
Peak Inverse Voltage	V_{RWM}	-	50	MBR2050CT-G MBRB2050CT-G MBR2050CT-1-G	V
			60	MBR2060CT-G MBRB2060CT-G MBR2060CT-1-G	
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C = 135°C, rectangular wave form		20	А
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse		150	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 10A, Pulse, T _J = 25 °C	0.80	V
(per leg) *		@ 20A, Pulse, T _J = 25 °C	0.95	
	V_{F2}	@ 10A, Pulse, T _J = 125 °C	0.70	V
		@ 20A, Pulse, T _J = 125 °C	0.85	
Max. Reverse Current	I _{R1}	@V _R = rated V _R Pulse	1.0	mA
(per leg) *		T _J = 25 °C		
	I _{R2}	$@V_R = rated V_R$, Pulse	150	mA
		T _J = 125 °C		
Max. Junction Capacitance	C _⊤	$@V_R = 4V, T_C = 25 ^{\circ}C$	400	pF
(per leg)		f _{SIG} = 1MHz		
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs

^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units	
Max. Junction Temperature	T_J	-	-55 to +150	°C	
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C	
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	2.0	°C/W	
Typical Thermal Resistance Case to Heat Sink	$R_{\theta CS}$	Mounting surface, smooth and greased (only for TO-220)	0.50	°C/W	
Approximate Weight	wt	-	2	g	
Mounting Torque	T _M	-	6(Min.) 12(Max.)	Kg-cm	
Case Style	TO-220AB D ² PAK TO-262(Suffix"-1" for TO-262,"MBRB x" for D ² PAK)				

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MBR2050/2060CT-G MBRB2050/2060CT-G MBR2050/2060CT-1-G

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