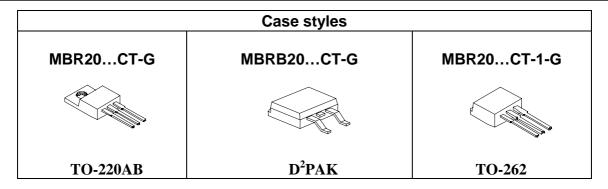
MBR2080/90/100CT-G MBRB2080/90/100CT-G MBR2080/90/100CT-1-G

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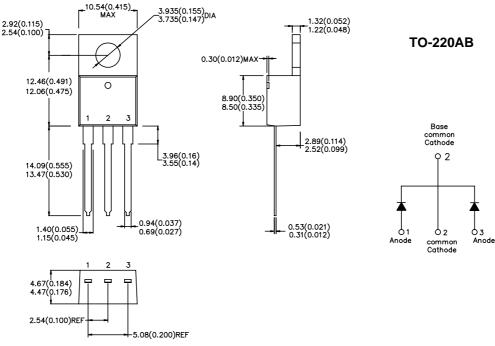
MBR20...CT-G/MBRB20...CT-G/MBR20...CT-1-G SCHOTTKY RECTIFIER

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



Mechanical Dimensions: In mm/ inches

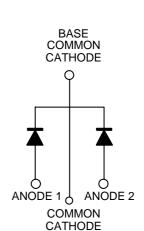


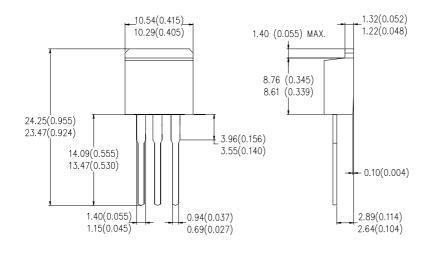
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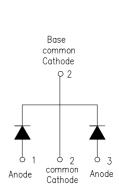
D²PAK

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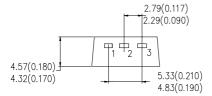
4.69(0.185) 10.16(0.400) 4.20(0.165) REF. 1.37(0.054) 1.32(0.052) 1.17(0.046) 1.22(0.048) 8.90(0.350) 15.49(0.610) 8.50(0.335) 14.73(0.580) 1.70(0.067) 5.28(0.208) 1.30(0.051) 4.78(0.188) 3×1.40(0.055) 0.55(0.022) 0.93(0.037) 0.46(0.018)1.14(0.045) 0.69(0.027)5.08(0.200)REF.







TO-262



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Maximum Ratings:

Characteristics	Symbol	Condition		Max.	U ni ts
Peak Inverse Voltage	V_{RWM}	-	80	MBR2080CT-G MBRB2080CT-G MBR2080CT-1-G	V
			90	MBR2090CT-G MBRB2090CT-G MBR2090CT-1-G	
			100	MBR20100CT-G MBRB20100CT-G MBR20100CT-1-G	
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C =133℃, rectangular wave form	10(Per leg) 20(Per device)		Α
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	150		А
Peak Repetitive Reverse Surge Current (per leg)	I _{RRM}	2.0μs,1.0KHz	0.5		А

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg)*	V_{F1}	 @ 10A, Pulse, T_J = 25 °C @ 20 A, Pulse, T_J = 25 °C 	0.85 0.95	V
	V_{F2}	 @ 10 A, Pulse, T_J = 125 °C @ 20 A, Pulse, T_J = 125 °C 	0.75 0.85	V
Max. Reverse Current (per leg)*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 \degree C$	1.00	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125 \degree C$	6.0	mA
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	TJ	-	-55 to +150	$^{\circ}\mathbb{C}$	
Max. Storage Temperature	T_{stg}	-	-55 to +150	$^{\circ}$	
Maximum Thermal Resistance Junction to Case (per leg)	$R_{ heta JC}$	DC operation	2.0	°C/W	
Approximate Weight	wt	-	1.9	g	
Mounting Torque	T _M	-	6(Min.) 12(Max.)	Kg-cm	
Case Style	TO-220AB D ² PAK TO-262				

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