

Pb Free Plating Product

MBR20100CTR/MBR20150CTR/MBR20200CTR





20 Ampere Heatsink Dual Common Anode Schottky Half Bridge Rectifiers

Features

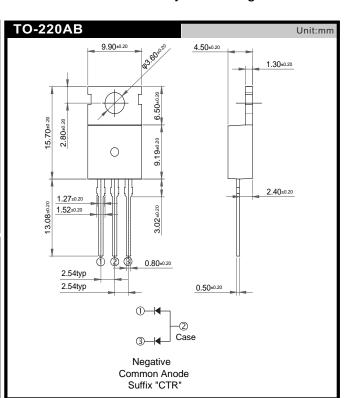
- ★ HMBR matured technology with high reliablity
- ★ Low forward voltage drop
- High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

Application

- ★ Automotive Inverters and Solar Inverters
- ★ Plating Power Supply,SMPS,EPS and UPS
- ★ Car Audio Amplifiers and Sound Device Systems

Mechanical Data

- ★ Case: Heatsink TO-220CE package
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202 method 208
- ★ Polarity: As marked on diode body
- ★ Mounting position: Any
- ★ Weight: 2.0 gram approximately



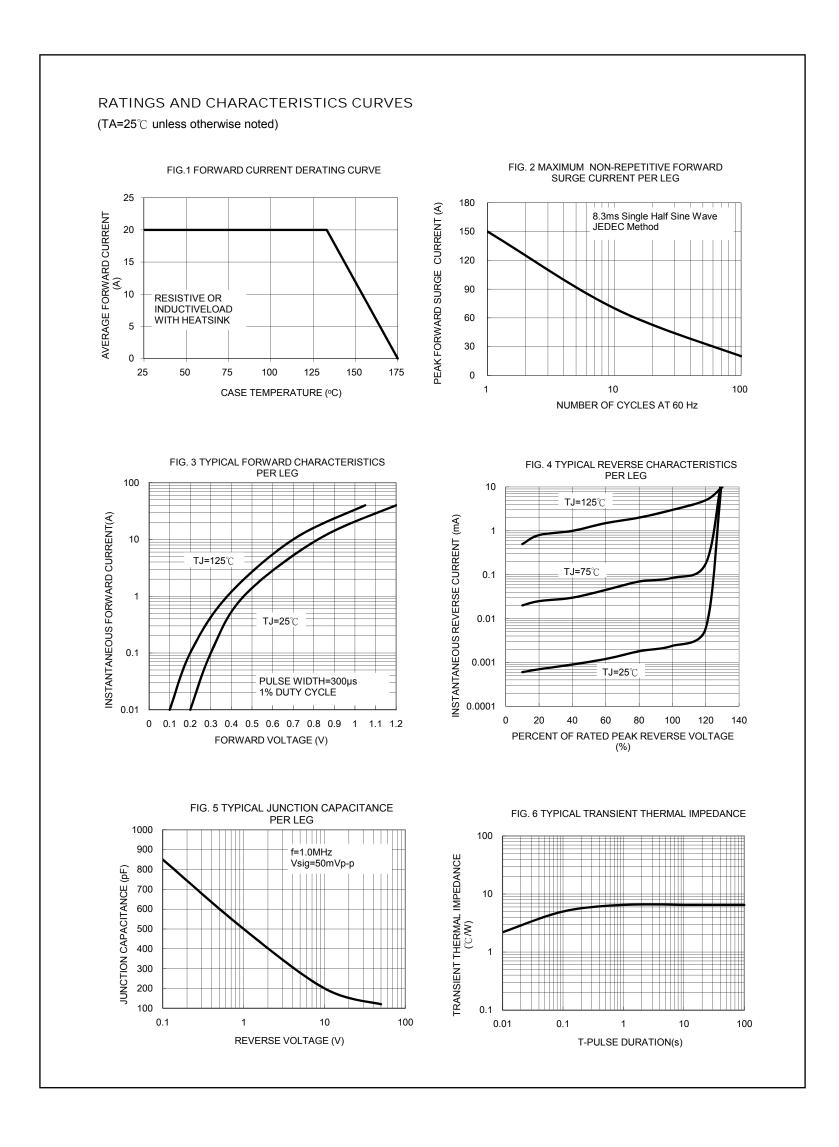
RACTERISTI	CS (T _A =25℃ unl	less otherwise no	oted)	
SYMBOL	MBR20100CTR	MBR20150CTR	MBR20200CTR	UNIT
V_{RRM}	100	150	200	V
V_{RMS}	70	105	140	V
V_{DC}	100	150	200	V
I _{F(AV)}	20			Α
I _{FRM}	20			Α
I _{FSM}	150			А
I _{RRM}	1 0.5		Α	
V _F	0.85 0.75 0.95 0.85	0.88 0.75 0.97 0.85		V
I _R	5 2			μA mA
dV/dt	10000			V/µs
$R_{ heta JC}$	3.5			°C/W
TJ	- 55 to +175			$^{\circ}\!\mathbb{C}$
T _{STG}	- 55 to +175			$^{\circ}\mathbb{C}$
	SYMBOL VRRM VRMS VDC IF(AV) IFRM VF IRRM VF	SYMBOL MBR20100CTR V _{RRM} 100 V _{RMS} 70 V _{DC} 100 I _{F(AV)} I _{FRM} I _{RRM} 0.85 V _F 0.75 0.95 0.85 I _R dV/dt R _{θJC} T _J	SYMBOL MBR20100CTR MBR20150CTR V _{RMM} 100 150 V _{RMS} 70 105 V _{DC} 100 150 I _{F(AV)} 20 I _{FRM} 20 I _{FRM} 1 V _F 0.85 0. 0.95 0. 0.85 0. I _R 5 2 dV/dt 10000 R _{BJC} 3.5 T _J -55 to +175	V _{RRM} 100 150 200 V _{RMS} 70 105 140 V _{DC} 100 150 200 I _{F(AV)} 20 20 I _{FRM} 150 0.5 I _{RRM} 1 0.5 V _F 0.75 0.75 0.95 0.97 0.85 I _R 5 2 dV/dt 10000 3.5 T _J -55 to +175

Note 1: tp = 2.0 μs, 1.0KHz

Note 2: Pulse test with PW=300µs, 1% duty cycle

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