



查询MBRF10H90CT供应商

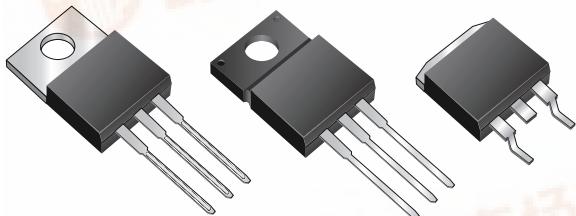
捷多邦，专业PCB打样工厂，24小时加急出货

MBR10H100CT, MBRF10H100CT & MBRB10H100CT Series

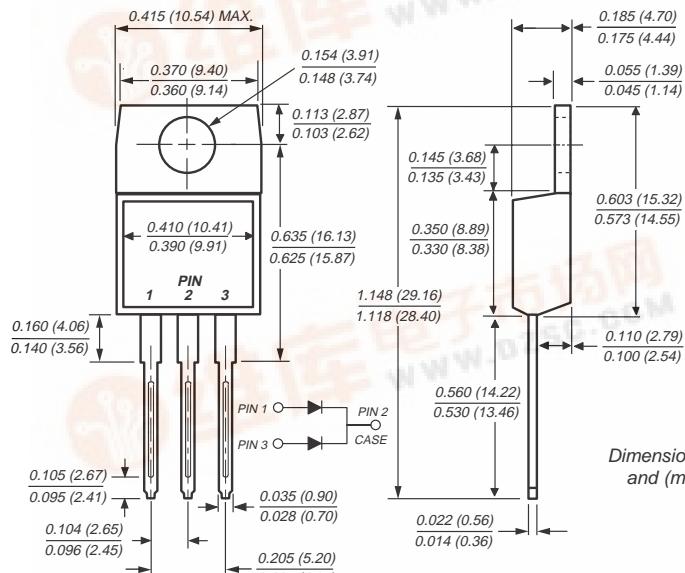
New Product

Vishay Semiconductor

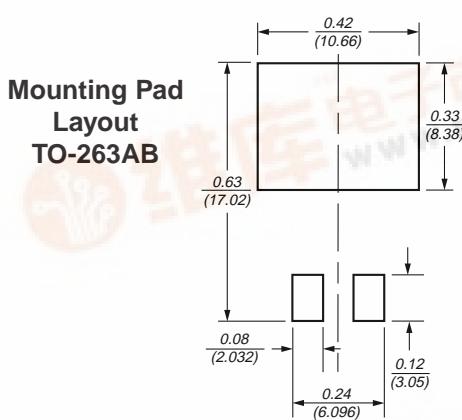
Dual High-Voltage Schottky Rectifiers



TO-220AB (MBR10H90CT, MBR10H100CT)



*Dimensions in inches
and (millimeters)*



Features

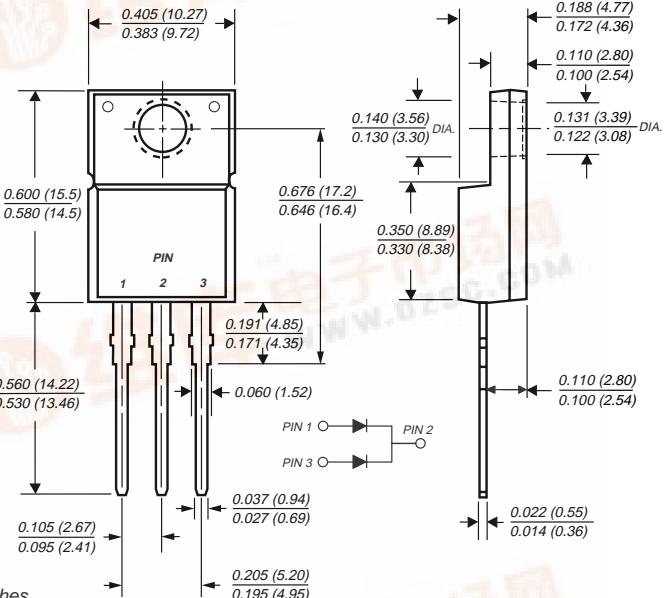
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
 - Dual rectifier construction, positive center tap
 - Metal silicon junction, majority carrier conduction
 - Low power loss, high efficiency
 - Guardring for overvoltage protection
 - For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



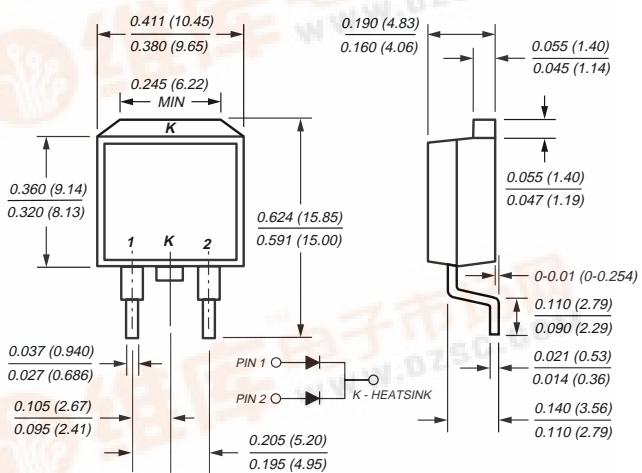
Document Number: 88668

Rev. Voltage 90 to 100V
Forward Current 10A

ITO-220AB (MBRF10H90CT, MBRF10H100CT)



TO-263AB (MBRB10H90CT, MBRB10H100CT)



Mechanical Data

Case: JEDEC TO-220AB, ITO-220AB & TO-263AB
molded plastic body

Terminals: Plated leads, solderable per MIL-STD-750, Method 2026
High temperature soldering guaranteed:
250°C/10 seconds, 0.25" (6.35mm) from case

Polarity: As marked

Mounting Position: Any

Mounting Torque: 10 in-lbs maximum

Weight: 0.08oz., 2.24g

MBR10H100CT, MBRF10H100CT & MBRB10H100CT Series

Vishay Semiconductors
formerly General Semiconductor



Maximum Ratings (T_C = 25°C unless otherwise noted)

Parameter	Symbol	MBR10H90CT	MBR10H100CT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	90	100	V
Working peak reverse voltage	V _{RWM}	90	100	V
Maximum DC blocking voltage	V _{DC}	90	100	V
Maximum average forward rectified current at T _C = 105°C	Total device Per leg	I _{F(AV)}	10 5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) per leg	I _{FSM}		150	A
Peak repetitive reverse current per leg at t _p = 2μs, 1KHz	I _{RRM}		0.5	A
Voltage rate of change (rated V _R)	dV/dt		10,000	V/μs
Operating junction and storage temperature range	T _J , T _{STG}		-65 to +175	°C
RMS Isolation voltage (MBRF type only) from terminals to heatsink with t = 1 second, RH ≤ 30%	V _{ISOL}		4500 ⁽¹⁾ 3500 ⁽²⁾ 1500 ⁽³⁾	V

Electrical Characteristics (T_C = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit	
Maximum instantaneous forward voltage per leg ⁽⁴⁾	at I _F = 5.0A, T _J = 25°C at I _F = 5.0A, T _J = 125°C at I _F = 10A, T _J = 25°C at I _F = 10A, T _J = 125°C	V _F	0.76 0.61 0.85 0.71	V
Maximum reverse current per leg at working peak reverse voltage (Note 4)	I _R	3.5 4.5	μA mA	

Thermal Characteristics (T_C = 25°C unless otherwise noted)

Parameter	Symbol	MBR	MBRF	MBRB	Unit
Typical thermal resistance per leg	R _{θJC}	2.2	4.2	2.2	°C/W

Notes:

- (1) Clip mounting (on case), where lead does not overlap heatsink with 0.110" offset
- (2) Clip mounting (on case), where leads do overlap heatsink
- (3) Screw mounting with 4-40 screw, where washer diameter is ≤ 4.9 mm (0.19")
- (4) Pulse test: 300μs pulse width, 1% duty cycle

Ordering Information

Product	Case	Package Code	Package Option
MBR10H90CT, MBR10100CT	TO-220AB	45	Anti-Static tube, 50/tube, 2K/carton
MBRF10H90CT, MBRF10100CT	ITO-220AB	45	Anti-Static tube, 50/tube, 2K/carton
MBRB10H90CT, MBRB10100CT	TO-263AB	31 45 81	13" reel, 800/reel, 4.8K/carton Anti-Static tube, 50/tube, 2K/carton Anti-Static 13" reel, 800/reel, 4.8K/carton



MBR10H100CT, MBRF10H100CT & MBRB10H100CT Series

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Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 – Forward Derating Curve Per Leg

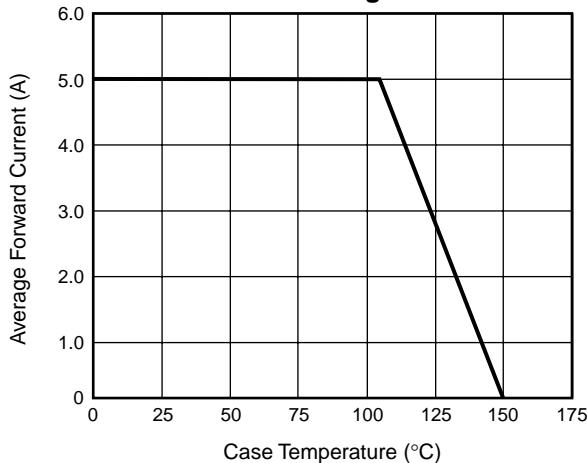


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

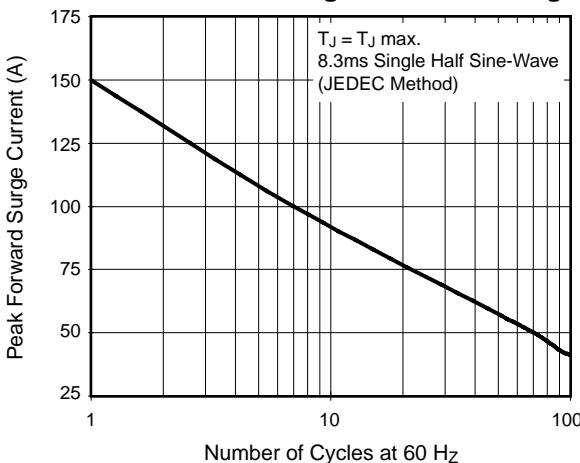


Fig. 3 – Typical Instantaneous Forward Characteristics Per Leg

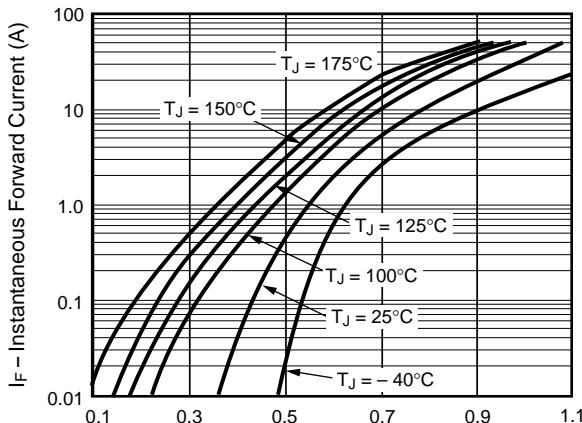


Fig. 4 – Typical Reverse Characteristics Per Leg

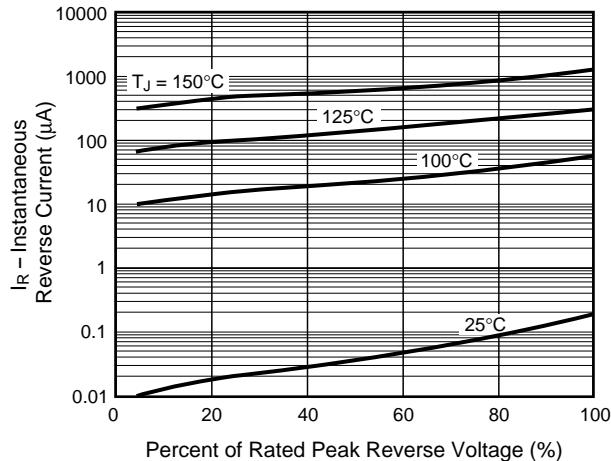


Fig. 5 – Typical Junction Capacitance Per Leg

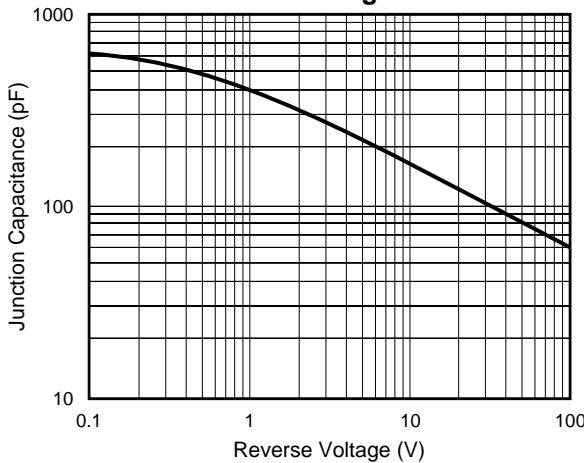


Fig. 6 – Typical Transient Thermal Impedance Per Leg

