

MBR1020CT/FCT/CD THRU MBR10200CT/FCT/CD



SCHOTTKY RECTIFIERS

VOLTAGE 20~200Volts **CURRENT** 10 Ampers **TO-220AB/ITO-220AB/TO-263** Unit:(mm)

FEATURES

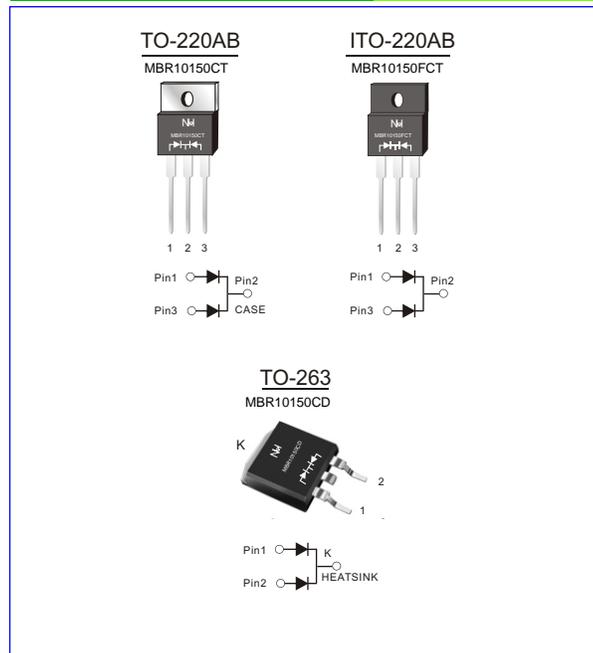
- Power pack
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,low forward voltage drop
- High forward surge capability
- High frequency operation
- Meets MSL Level 1, per J-STD-020, LF MAX peak of 245°C (for TO-263 package)
- Solder bath temperature 275°C maximum, 10s, per JESD22-B106 (for TO-220AB and ITO-220AB package)
- Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: JEDEC TO-220AB、 ITO-220AB 、 TO-263
- Molding compound meets UL94V-0 flammability rating
- Terminals: Lead solderable per J-STD-002 and JESD22-B102
- Polarity: As marked
- Mounting Torque: 10 in-lbs maximum

TYPICAL APPLICATIONS

For use in low voltage ,high frequency inverters ,DC/DC converters, free wheeling ,and polarity protection applications



Maximum Ratings and Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified)

	Symbols	MBR 1020CT /FCT /CD	MBR 1030CT /FCT /CD	MBR 1040CT /FCT /CD	MBR 1050CT /FCT /CD	MBR 1060CT /FCT /CD	MBR 1080CT /FCT /CD	MBR 10100CT /FCT /CD	MBR 10150CT /FCT /CD	MBR 10200CT /FCT /CD	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current(see Fig.1)	I(AV)	Per leg									Amps
		Total device									
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	5.0 10.0									Amps
Maximum instantaneous forward voltage at 10.0 A	V _F	0.70			0.75		0.80		0.90		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	I _R	T _c = 25°C									mA
		T _c = 125°C									
Operating junction temperature range	T _J	-65 to +150									°C
Storage temperature range	T _{STG}	-65 to +150									°C

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle