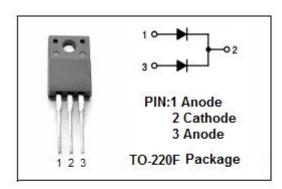


Schottky Barrier Rectifier

MBR30200FCT

FEATURES

- · Plastic package used carriers Unerwriter Laboratory
- · Metal silicon rectifier, majorty carrier conduction
- · Low Power Loss, High Efficiency
- · Guard ring for transient protection
- High Surge Capability, High Current Capability
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

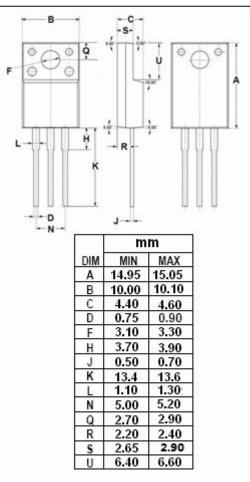


APPLICATIONS

• For use in low voltage ,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
V _{R(RMS)}	RMS Reverse Voltag	140	V
I _{F(AV)}	Average Rectified Forward Current	30	А
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	150	А
T_J	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C
dv/dt	Voltage Rate of Change (Rated V _R)	10,000	V/μs





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.4	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 15A ; Tc= 25 ℃	0.9	V
		I _F = 15A ; Tc= 125℃	0.7	
lR	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;Tc= 25 °C	1	mA
		V _R = V _{RWM;} Tc= 125°C	6	



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