

Schottky Barrier Rectifier

MBRF30200CT

FEATURES

- Plastic material used carriers Underwriter Laboratory
- Metal silicon junction, majority carrier conduction
- Low IR
- Low VF
- Center tap connection
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

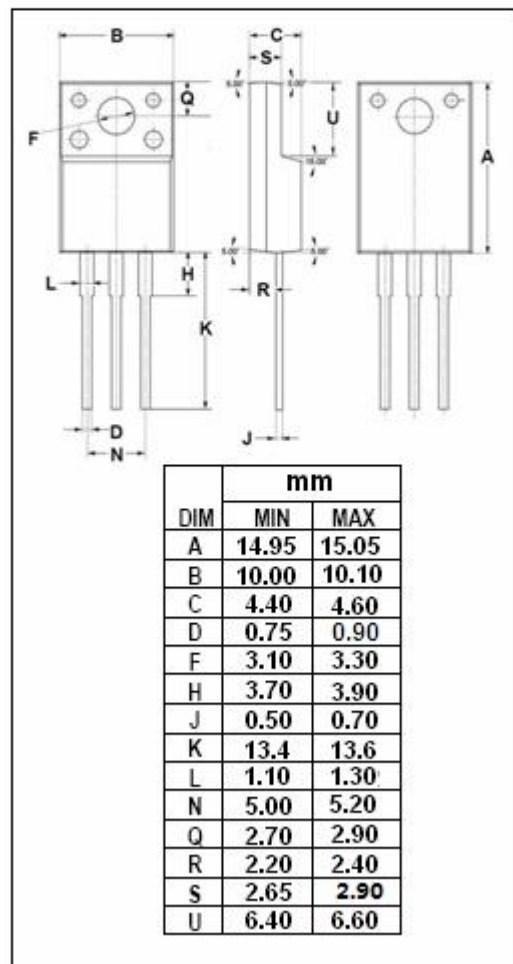
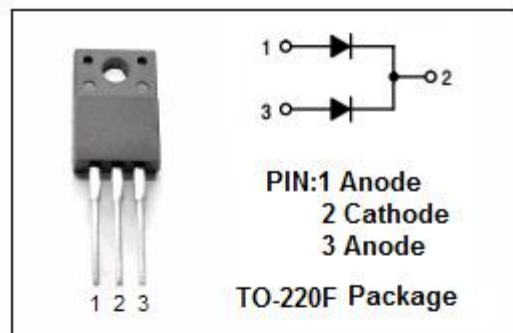


APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	200	V
V _{RWM}	Working Peak Reverse Voltage	140	
V _R	DC Blocking Voltage tw=500ns;duty=1/40	200	
I _{F(AV)}	Average Rectified Forward Current	30	A
I _{F(RMS)}	RMS Forward current (Rated VR,Sqqre Wave,20KHz)	30	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	200	A
T _J	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~175	°C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	3.8	$^{\circ}C/W$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=15A ; T_c= 25^{\circ}C$ $I_F=15A ; T_c= 125^{\circ}C$ $I_F=30A ; T_c= 25^{\circ}C$ $I_F=30A ; T_c= 125^{\circ}C$	0.95 0.80 1.05 0.92	V
I_R	Maximum Instantaneous Reverse Current	$V_R= 200V; T_c= 25^{\circ}C$ $V_R= 200V; T_c= 125^{\circ}C$	0.2 10	mA

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