

Schottky Barrier Rectifier

MBRS2060CT

FEATURES

- High current capability
- Avalanche rated
- Low Power Loss,high Efficiency
- High frequency operation
- High Surge Capability,High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

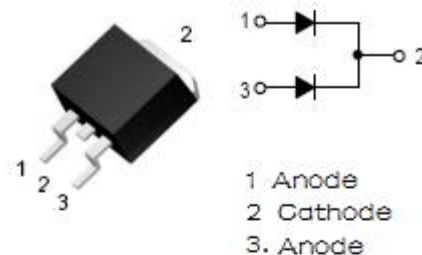
APPLICATIONS

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

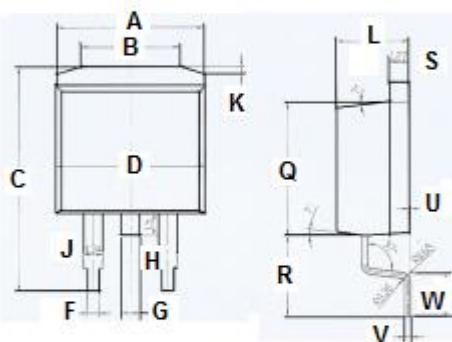
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	60	V
V _{RWM}	Working Peak Reverse Voltage	42	
V _R	DC Blocking Voltage	60	
I _{F(AV)}	Average Rectified Forward Current T _c =135°C	20	A
I _{F(RSM)}	Forward Current rms;T _c =135°C (Square wave,20KHz)	20	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	150	A
T _J	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~175	°C

D2PAK



TO-263 Package



DIM	mm	
	MIN	MAX
A	10	
B	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
H	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
Q	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
V	0.37	0.39
W	2.80	2.82

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.5	$^{\circ}C/W$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=10A; T_c=25^{\circ}C$	0.80	V
		$I_F=10A; T_c=125^{\circ}C$	0.70	
		$I_F=20A; T_c=25^{\circ}C$	0.95	
		$I_F=20A; T_c=125^{\circ}C$	0.85	
I_R	Maximum Instantaneous Reverse Current	$V_R=60V; T_c=25^{\circ}C$	0.1	mA
		$V_R=60V; T_c=125^{\circ}C$	10	

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