

Schottky Rectifier

MBRD10200CT

FEATURES

- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- Low forward voltage drop
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

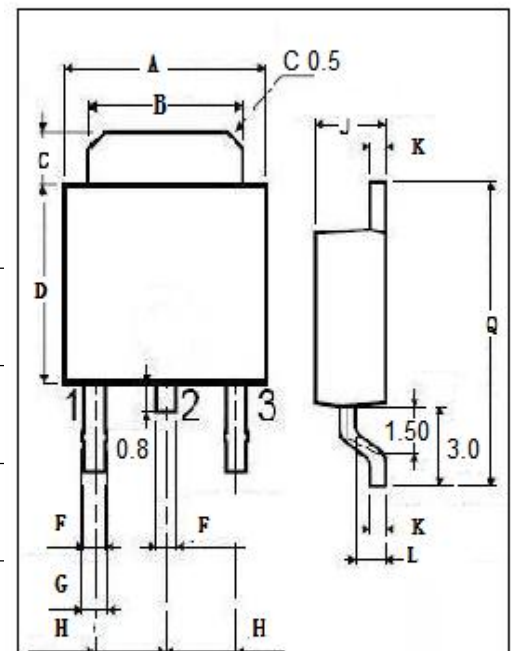
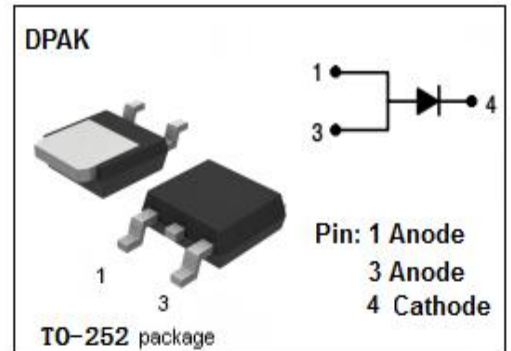
- Switching power supply
- Converters
- Free-Wheeling diodes

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current	10	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	128	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2	°C/W



DIM	mm	
	MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER			CONDITIONS	TYP	MAX	UNIT
V_F	Maximum Voltage	Instantaneous	Forward	$I_F=5A ; T_j=125^{\circ}C$		0.74	V
				$I_F=5A ; T_j= 25^{\circ}C$		0.9	
I_R	Maximum Current	Instantaneous	Reverse	$V_R= V_{RWM}; T_j= 25^{\circ}C$		1	mA
				$V_R= V_{RWM}; T_j= 125^{\circ}C$		25	mA

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