

Schottky Barrier Rectifier

MBRD10100CT

FEATURES

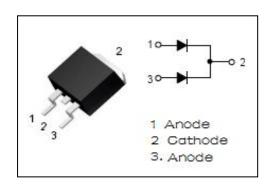
- With TO-251(DPKE) package
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

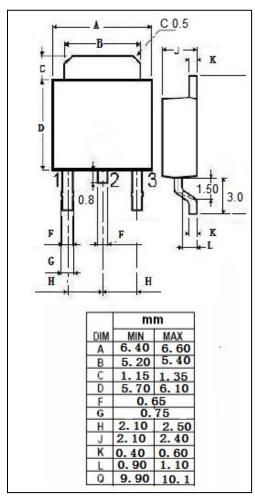
APPLICATIONS

- · High frequency switching
- · High efficiency SMPS
- Automotive

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	100	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 100 [°] C	10	Α
I _{FSM}	Non-repetitive Peak Surge Current 8.3ms half sine wave	120	Α
TJ	Junction Temperature 125		$^{\circ}$
T _{stg}	Storage Temperature Range	Range -55~150	







Schottky Barrier Rectifier

MBRD10100CT

THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300us, Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	$I_F = 5A$; $T_C = 25^{\circ}C$ $I_F = 10A$; $T_C = 25^{\circ}C$	0.85 0.95	V
IR	Maximum Instantaneous Reverse Current	V _R =100V, T _C = 25 °C	100	μА

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.