

Schottky Barrier Rectifier

MBRD2040CT

FEATURES

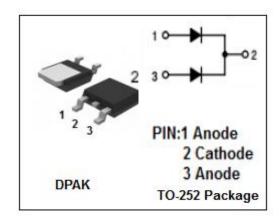
- With TO-252(DPAK) packaging
- Low power loss
- · High frequency operation
- High surge capacity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

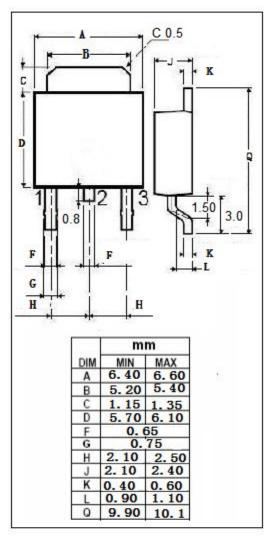
APPLICATIONS

- Switching power supply
- High frequency inverters
- Freewheeling diodes
- · Reverse battery protection
- · Polarity protection applications



SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	40	V
I _{F(AV)}	Average Rectified Forward Current	20	Α
I _{F(RMS)}	Forward rms current	40	Α
IFSM	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions,60Hz)	120	Α
TJ	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-a}	Typical Thermal Resistance	45	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A ;Tc= 25℃	0.60	V
I _R	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ; Tc= 25 ℃	0.1	- mA
		V _R = rated V _{RRM} ; Tc= 125 °C	20	

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