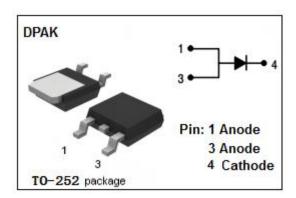
Schottky Barrier Rectifier

MBRD1045

FEATURES

- · Schottky barrier chip
- · Low Power Loss, High Efficiency
- · Guard ring for transient protection
- · High Operating Junction Temperature
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

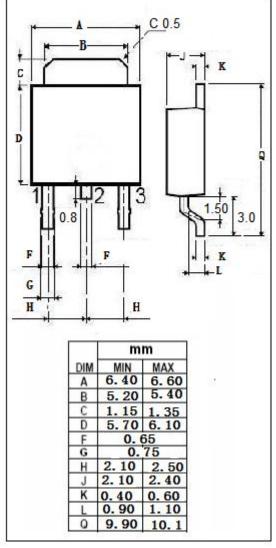


APPLICATIONS

 For use in high frequency rectifier of switching mode power supplies,freewheeling diodes,DC-to-DC converters or polarity protection application.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current	10	A
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	150	А
TJ	Junction Temperature	-40~150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3	°C/W

ELECTRICAL CHARACTERISTICS

SYMBOL		PARAMETER		CONDITIONS	TYP	MAX	UNIT
VF	Maximum Instantaneo Voltage	Instantaneous	s Forward	I _F =5A ; Tj=125℃		0.49	V
				I _F =5A ; Tj= 25 ℃		0.5	
I _R	Maximum Instantaneous Current	Instantaneous	neous Reverse	V _R = V _{RWM;} Tj= 25°C		100	uA
			V _R = V _{RWM;} Tj= 125°C		15	mA	



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