

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

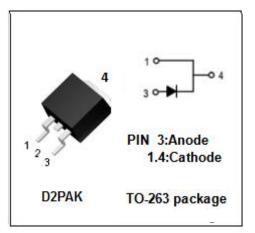
EBR10L45A

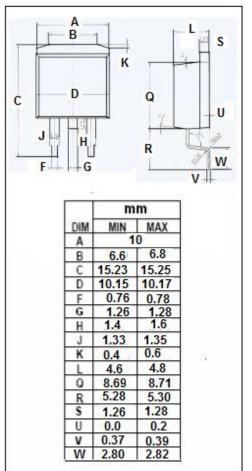
FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss/High Efficiency
- High Surge Capability
- High Current Capability, Low Forward Voltage Drop
- Plastic Material: UL Flammability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for low-voltage, high frequency inverters, free wheeling and polarrity protection applications.





ABSOLUTE MAXIMUM RATINGS(Ta=25°C

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SYMBOL	PARAMETER	VALUE	UNIT			
Vrrm Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	45	V			
V _{R(RMS)}	RMS Reverse Voltag	31.5	V			
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 125 $^\circ\!\mathrm{C}$	10	А			
Ігѕм	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	A			
TJ	Junction Temperature	-65~150	°C			
T _{stg}	stg Storage Temperature Range		°C			
dv/dt	Voltage Rate of Change (Rated V _R)	1000	V/ µ s			



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A ; T _C = 25℃ I _F = 10A ; T _C = 125℃	0.84 0.55	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 [°] C Rated DC Voltage, T _C = 125 [°] C	0.1 15	mA

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