

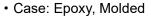
Schottky Barrier Rectifier

MBRB40250TG

FEATURES

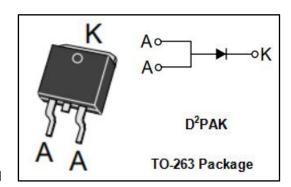
- · Guard -Ring for Stress Protection
- Low Forward Voltage
- High Operating Junction Temperature
- · Low Power Loss/High Efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

MECHANICAL CHARACTERISTICS





- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260 ℃ Max. for 10 Seconds



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _R WM V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	250	V
I _{F(AV)}	Average Rectified Forward Current (Rated V_R) T_C = 105 $^{\circ}C$	40	А
I _{FRM}	Peak Repetitive Forward Current (Rated V _R ,Square Wave,20kHz) T _C = 105 °C	80	А
I _{FSM}	Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	150	А
TJ	Junction Temperature	-65~175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$ C
dv/dt	Voltage Rate of Change (Rated V _R)	10,000	V/μs

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.0	°C/W

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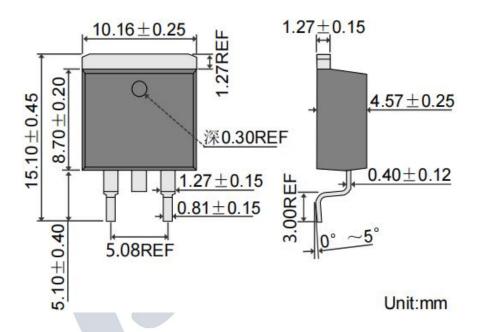


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ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 20A ; T _C = 25 °C I _F = 20A ; T _C = 125 °C	0.89 0.78	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 °C Rated DC Voltage, T _C = 125 °C	0.25 30	mA



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