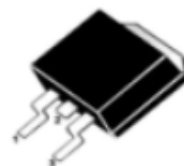


Schottky barrier rectifiers

Features

- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
250°C/10 seconds
- Component in accordance RoHS 2011/65/EU



TO-263

Mechanical Data

Case:TO-263

Molding compound meets

UL 94 V-0 flammability rating

- **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity:** As marked
- **Mounting Position:** Any



Major Ratings and Characteristics

$I_{F(AV)}$	30A
V_{RRM}	20 V to 200 V
I_{FSM}	200A
V_F	0.55V,0.60V,0.70V,0.85V,0.95V
$T_{jmax.}$	125°C,150°C

Maximum Ratings & Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Items	Symbol	MBR 3020	MBR 3040	MBR 3045	MBR 3060	MBR 30100	MBR 30150	MBR 30200	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	45	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	31.5	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	40	45	60	100	150	200	V
Average forward rectified current (See Fig.1)	I _{F(AV)}	30.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200.0							A
Thermal resistance from junction to case	R _{θJc}	2.0							℃/W
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +125				-55 to +150			℃
Maximum instantaneous forward voltage at 15.0A	V _F	0.55	0.60		0.70	0.85	0.95		V
Typical junction capacitance ⁽¹⁾		C _J	800			350			pF
Maximum DC reverse current at rated DC blocking voltage	T _A =25℃	I _R	0.15			0.1			mA
	T _A =100℃		40.0			20.0			

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Characteristics Curves

