

Schottky Barrier Rectifier**MBR1065****FEATURES**

- Low Forward Voltage
- 170°C Operating Junction Temperature
- Low Power Loss/High Efficiency
- High Surge Capacity

APPLICATIONS

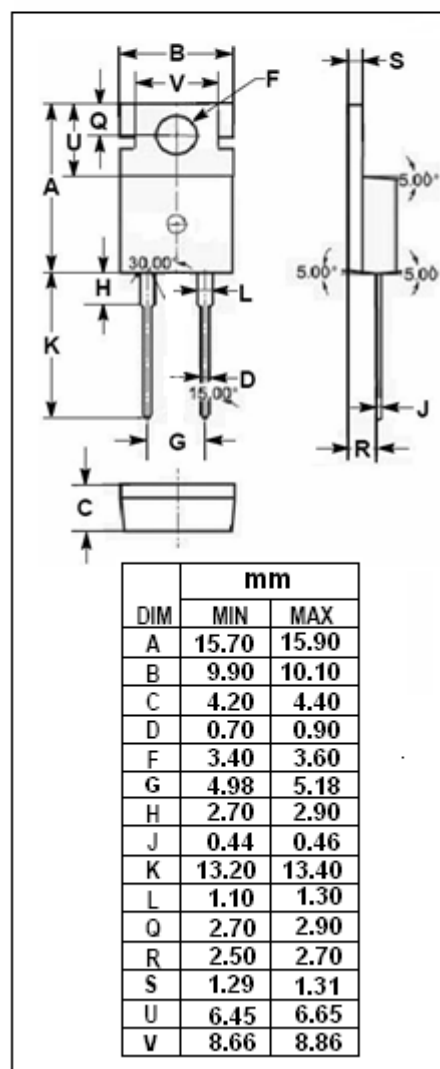
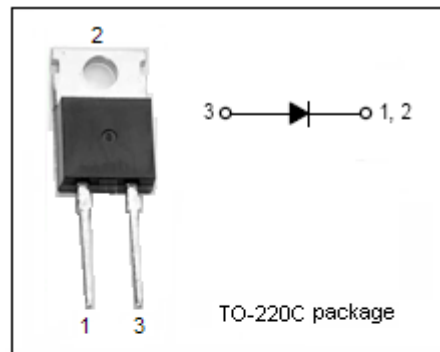
- Power supply- output rectification
- Power management
- Instrumentation

MECHANICAL CHARACTERISTICS

- Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	DC Blocking Voltage	65	V
$I_{F(AV)}$	Average Rectified Forward Current (Rated V_R) $T_C=133^\circ\text{C}$	5	A
I_{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	A
T_J	Junction Temperature	170	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-50~170	$^\circ\text{C}$



Schottky Barrier Rectifier**MBR1065****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	2.0	°C/W
$R_{th\ j-a}$	Thermal Resistance,Junction to Ambient	60	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F= 5A ; T_C= 25^{\circ}C$	0.76	V
I_R	Maximum Instantaneous Reverse Current	$V_R= 65V, T_C= 25^{\circ}C$	20	μA