

**Schottky Barrier Rectifier**

**MBR16150**

**FEATURES**

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

**APPLICATIONS**

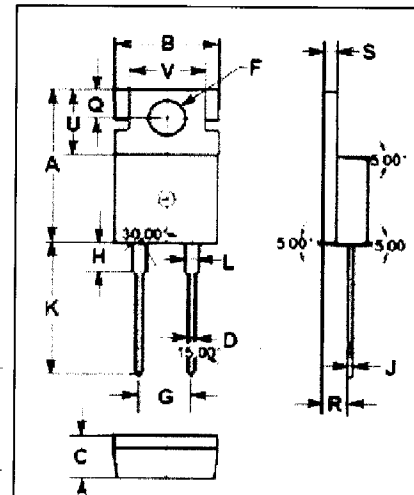
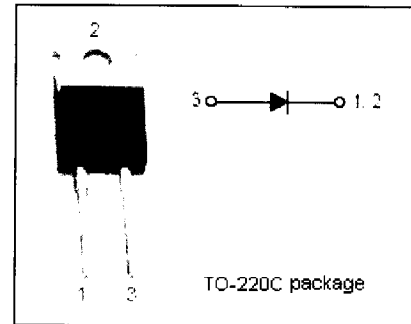
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

**MECHANICAL CHARACTERISTICS**

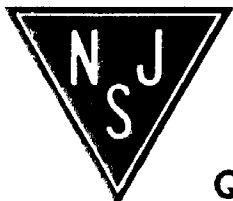
- Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds

**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub>	DC Blocking Voltage	150	V
I <sub>F(AV)</sub>	Average Rectified Forward Current (Rated V <sub>R</sub> ) T <sub>C</sub> = 133°C	8	A
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	210	A
T <sub>J</sub>	Junction Temperature	170	°C
T <sub>stg</sub>	Storage Temperature Range	-50~170	°C



DIM	mm	
	MIN	MAX
A	15.70	15.90
B	9.90	10.10
C	4.20	4.40
D	0.70	0.90
F	3.40	3.60
G	4.98	5.18
H	2.70	2.90
J	0.44	0.46
K	13.20	13.40
L	1.10	1.30
Q	2.70	2.90
R	2.50	2.70
S	1.29	1.31
U	6.45	6.65
V	8.66	8.86



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**Schottky Barrier Rectifier****MBR16150****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	3.0	$^{\circ}C/W$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_F$	Maximum Instantaneous Forward Voltage	$I_F = 8A ; T_C = 25^{\circ}C$	0.92	V
$I_R$	Maximum Instantaneous Reverse Current	$V_R = 150V, T_C = 25^{\circ}C$	10	$\mu A$