

Schottky Barrier Rectifier**MBR3060WT****FEATURES**

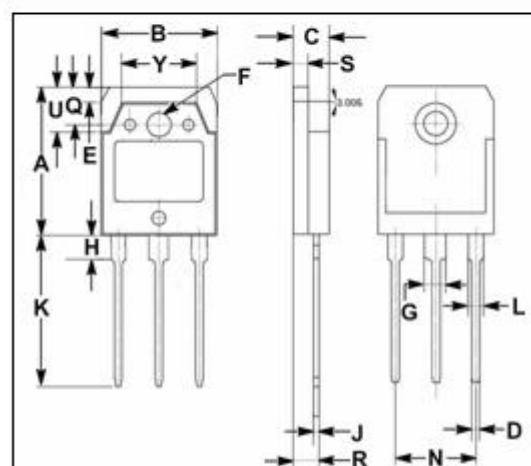
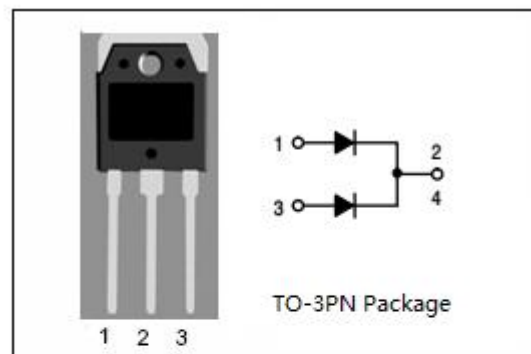
- Dual diode construction; terminals 1 and 3 may be connected for parallel operation at full rating
- Low forward voltage
- Guarding for stress protection
- 150°C operating junction temperature
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

MECHANICAL CHARACTERISTICS

- Case: TO-3P package
- Mounting position: Any

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Peak Repetitive Reverse Voltage	60	V
V_{RMS}	Maximum RMS Voltage	42	V
V_{DC}	Maximum DC Blocking Voltage	60	V
$I_{F(AV)}$	Average Rectified Forward Current (Per Leg) (Total)	15 30	A
I_{FSM}	Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)	300	A
T_J	Junction Temperature	-65~150	°C
T_{stg}	Storage Temperature Range	-65~150	°C



DIM	mm	
	MIN	MAX
A	19.60	20.30
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Y	9.90	10.10

Schottky Barrier Rectifier**MBR3060WT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	1.4	°C/W
$R_{th\ j-a}$	Thermal Resistance,Junction to Ambient	40	°C/W

ELECTRICAL CHARACTERISTICS(Pulse Test: Pulse Width $\leq 300\ \mu s$,Duty Cycle $\leq 1\%$)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 15A$	0.75	V
I_R	Maximum Instantaneous Reverse Current	Rated DC Voltage, $T_C = 25^\circ C$ Rated DC Voltage, $T_C = 100^\circ C$	5.0 50	mA