

Schottky Barrier Rectifier

MBR20L60CT

FEATURES

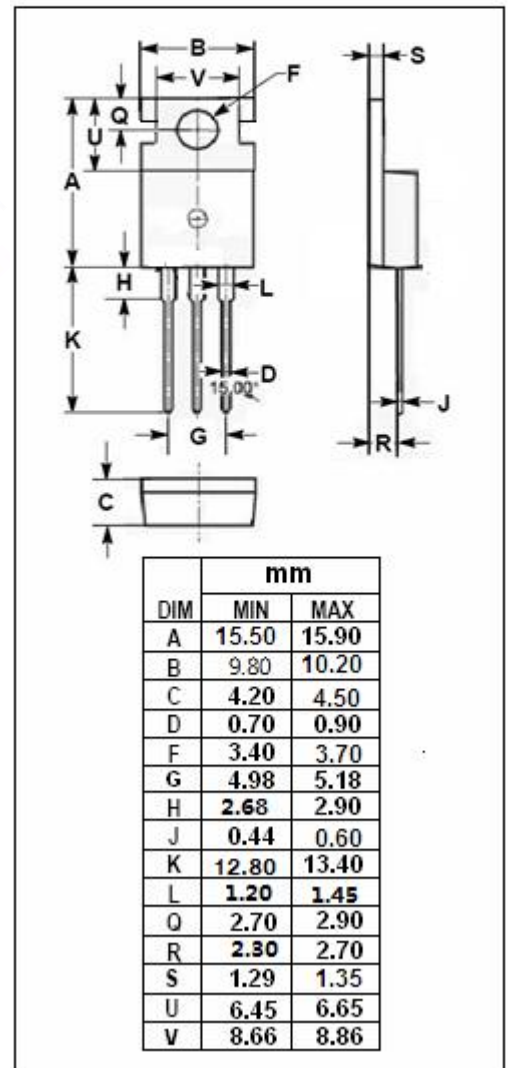
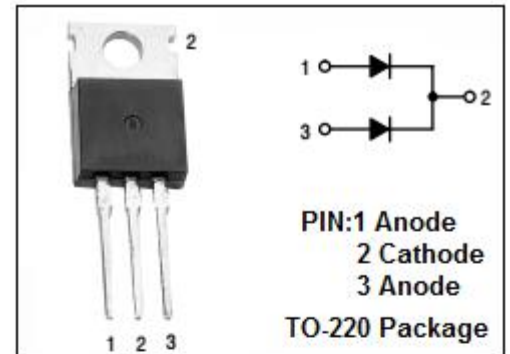
- Guard -Ring for Stress Protection
- Low Power Loss/High Efficiency
- High surge capability
- Pb-Free Packages are Available
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	60	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R)	20	A
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	240	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-65~175	°C



Schottky Barrier Rectifier**MBR20L60CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.3	$^{\circ}\text{C/W}$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	70	$^{\circ}\text{C/W}$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 10\text{A}; T_C = 25^{\circ}\text{C}$ $I_F = 10\text{A}; T_C = 125^{\circ}\text{C}$ $I_F = 20\text{A}; T_C = 25^{\circ}\text{C}$ $I_F = 20\text{A}; T_C = 125^{\circ}\text{C}$	0.57 0.54 0.73 0.69	V
I_R	Maximum Instantaneous Reverse Current	Rated DC Voltage, $T_C = 25^{\circ}\text{C}$ Rated DC Voltage, $T_C = 125^{\circ}\text{C}$	0.38 9.6	mA