

Schottky Barrier Rectifier

MBR10L60CT

FEATURES

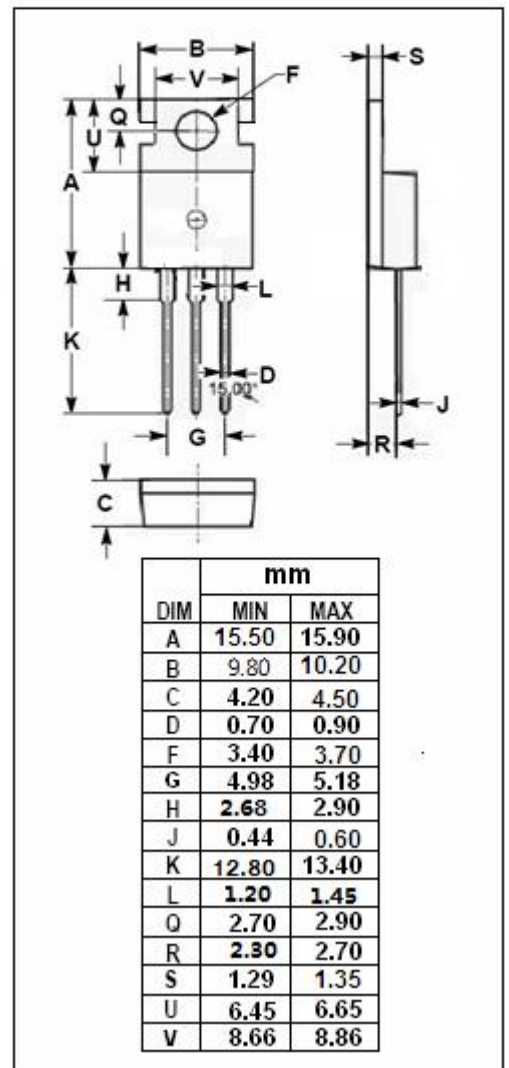
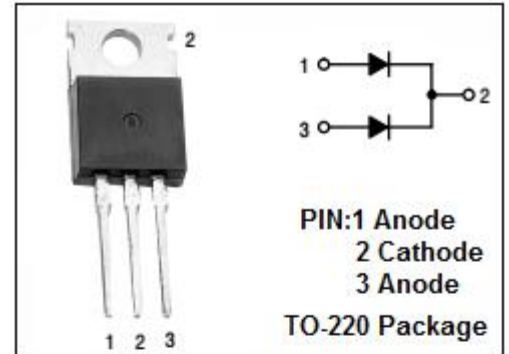
- Low Forward Voltage
- Low Power Loss/High Efficiency
- High surge capability
- Guard -Ring for Stress Protection
- Pb-Free Packages are Available
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power Supply-output Rectification
- Power Management
- Instrumentation

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)	5	A
	Average Rectified Forward Current (Rated V _R) T _C = 140°C	10	
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	200	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-65~175	°C



Schottky Barrier Rectifier**MBR10L60CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.8	$^{\circ}C/W$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	70	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s, Duty Cycle $\leq$ 2.0%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 5A ; T_C = 25^{\circ}C$ $I_F = 5A ; T_C = 125^{\circ}C$ $I_F = 10A ; T_C = 25^{\circ}C$ $I_F = 10A ; T_C = 125^{\circ}C$	0.57 0.49 0.66 0.61	V
I_R	Maximum Instantaneous Reverse Current	Rated DC Voltage, $T_C = 25^{\circ}C$ Rated DC Voltage, $T_C = 125^{\circ}C$	0.22 6.0	mA