

Schottky Barrier Rectifier

MBR1645CT

FEATURES

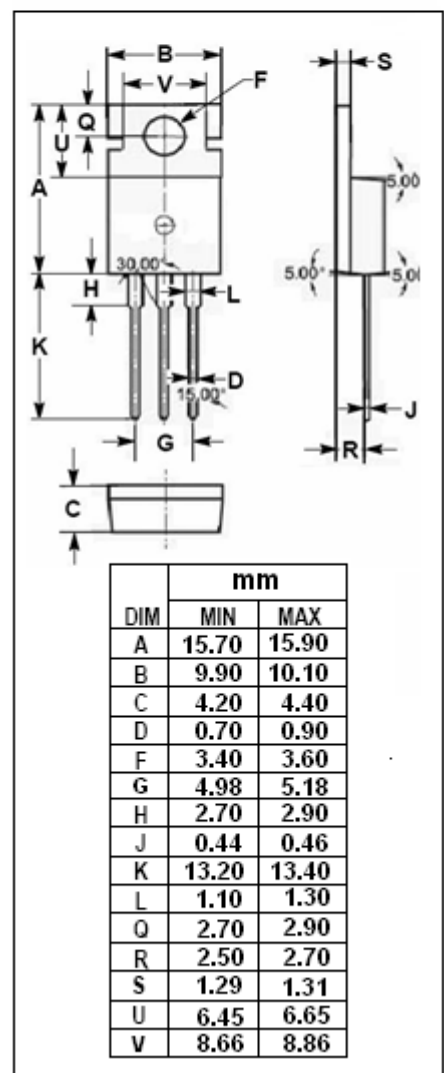
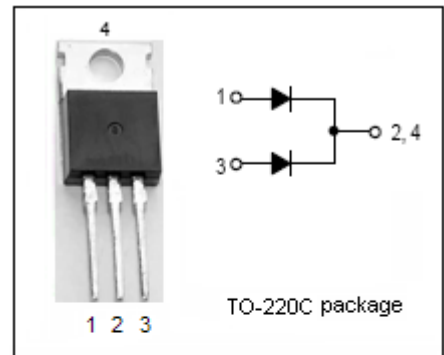
- Low Forward Voltage
- 170°C Operating Junction Temperature
- Guaranteed Reverse Avalanche
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction

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°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	DC Blocking Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 100°C	16	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	210	A
T _J	Junction Temperature	170	°C
T _{stg}	Storage Temperature Range	-50~170	°C



Schottky Barrier Rectifier**MBR1645CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.0	$^{\circ}C/W$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F= 8A ; T_C= 25^{\circ}C$	0.69	V
I_R	Maximum Instantaneous Reverse Current	$V_R= 45V, T_C= 25^{\circ}C$	20	μA