

Schottky Barrier Rectifier

MBR3045PT

FEATURES

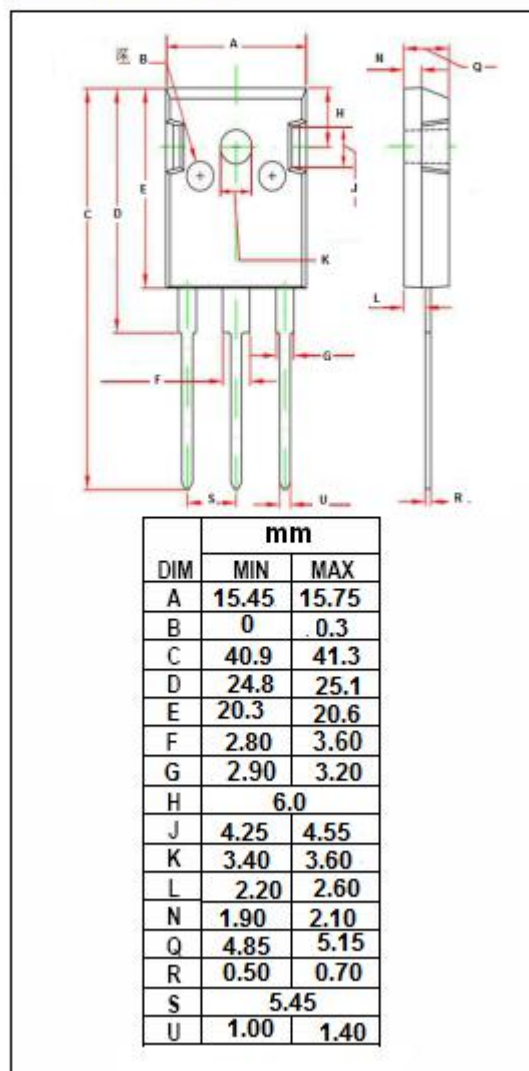
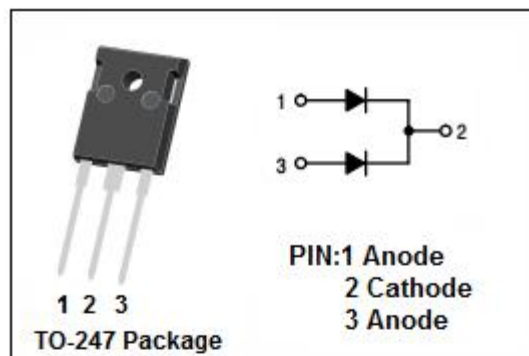
- High Current Capability, High Efficiency.
- High Junction Temperature Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Low Voltage High Frequency Switching Power Supply
- Low Voltage High Frequency Inverters Circuit.
- Low Voltage Continued Circuit and Protection Circuit

ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	VALUE	UNIT
V_{RWM}	Peak Inverse Voltage	45	V
$I_{F(AV)}$	Max. Average Forward	30	A
I_{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	200	A
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-40~150	°C



Schottky Barrier Rectifier**MBR3045PT****THERMAL CHARACTERISTICS**

SYMBOL	Item	MAX	UNIT
$R_{\theta JC}$	Typical Thermal Resistance(per leg)	0.5	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 15A ; T_J = 25^\circ C$	0.66	V
		$I_F = 15A ; T_J = 125^\circ C$	0.55	
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM} ; T_J = 25^\circ C$	0.05	mA
		$V_R = V_{RWM} ; T_J = 125^\circ C$	25	