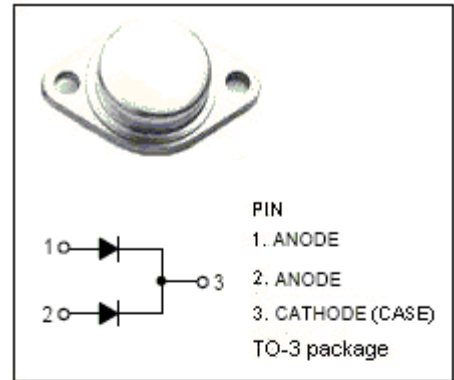


Schottky Barrier Rectifier

MBR3045

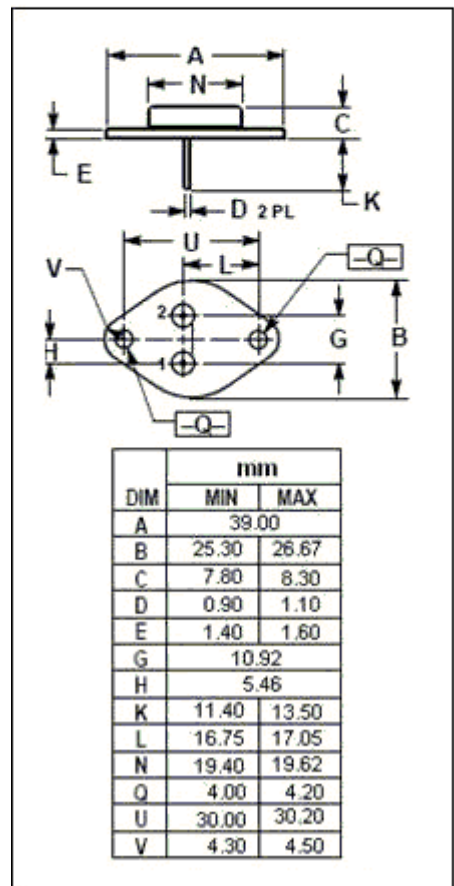
FEATURES

- Dual Rectifier Conduction, Positive Center Tap
- Low Power Loss/High Efficiency
- High Current Capability
- High Surge Capacity
- Guarding for Overvoltage protection
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub>	DC Blocking Voltage	45	V
I <sub>F(AV)</sub>	Average Rectified Forward Current T <sub>C</sub> = 105°C	30	A
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	275	A
T <sub>J</sub>	Junction Temperature	170	°C
T <sub>stg</sub>	Storage Temperature Range	-55~170	°C



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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 15A ; T <sub>C</sub> = 25°C	0.69	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = 45V, T <sub>C</sub> = 25°C	20	μ A