

Features

- Halogen Free. "Green" Device (Note 1)
- Ultra Low Forward Voltage Drop
- High Current Capability
- Lead Free Finish/RoHS Compliant(Note 2)("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 8.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage	
MBR1045ULPS	1045UL	45V	31.5V	45V	

Electrical Characteristics @ 25°C Unless Otherwise Specified

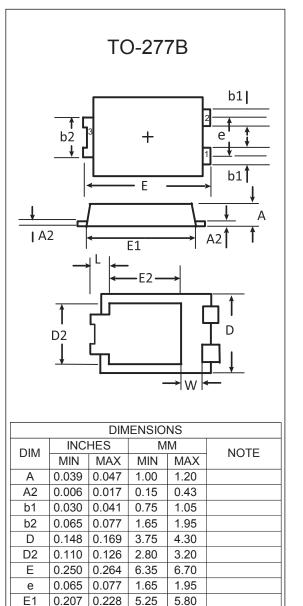
Average Forward Current	I _{F(AV)}	10A	T _L = 90°C
Peak Forward Surge Current	I _{FSM}	275A	8.3ms,Half Sine
Forward Voltage	V _F	0.33V(Typ) 0.38V(Typ) 0.43V(Typ) 0.47V(Max) 0.22V(Typ) 0.28V(Typ) 0.39V(Typ) 0.42V(Max)	$I_F=2A$ $I_F=5A$ $T_J = 25^{\circ}C$ $I_F=10A$ $I_F=2A$ $I_F=5A$ $T_J = 125^{\circ}C$ $I_F=10A$
Reverse Current	I _R	120µA(Max) 0.25mA(Max) 100mA(Max)	V_R =36 T_J = 25°C V_R =45 T_J = 25°C V_R =45 T_J = 125°C

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine,
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

Internal Structure

	•PIN 2
HEAT SINK	• PIN 1

10 Amp Low VF Schottky Barrier Rectifier 45 Volts



E2

L

0.120

0.031

0.028 0.051

0.142

0.056

3.05

0.70

0.80

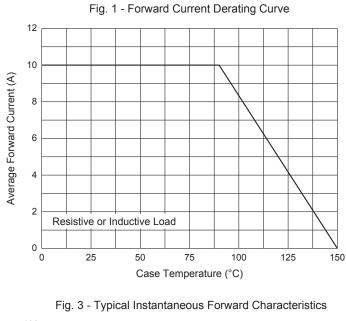
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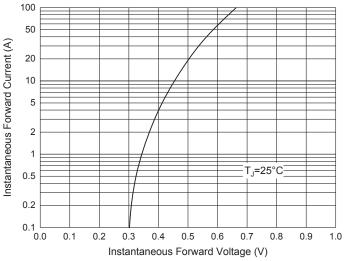
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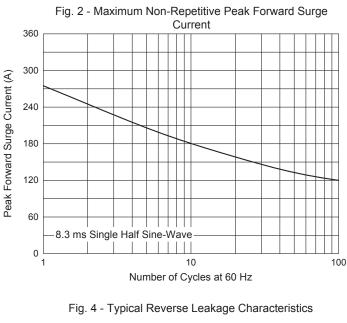
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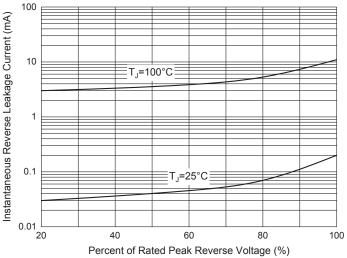


Curve Characteristics











Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:5Kpcs/Reel

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