

### **Features**

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- . High Surge Forward Current Capability
- · Low Power Loss, High Efficiency
- 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
- Typical Thermal Resistance: 60 °C/W Junction to Ambient
- Typical Thermal Resistance: 8.0 °C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
MBR5U60SHE3	5U60S	60V	42V	60V

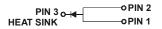
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	5A	T <sub>C</sub> = 125°C
Peak Forward Surge Current	I <sub>FSM</sub>	200A	8.3ms,Half Sine
Forward Voltage	V <sub>F</sub>	0.58V(Typ) 0.65V(Max) 0.48V(Typ) 0.55V(Max)	I <sub>F</sub> =5A T <sub>J</sub> =25°C I <sub>F</sub> =5A T <sub>J</sub> =125°C
Reverse Current	I <sub>R</sub>	0.1mA(Max) 10mA(Max) 20mA(Max)	$V_R$ =60; $T_J$ =25°C $V_R$ =60; $T_J$ =100°C $V_R$ =60; $T_J$ =125°C
Reverse Breakdown Voltage	$V_{BR}$	60V(Min)	I <sub>R</sub> =0.2mA
Current Squared Time	I <sup>2</sup> T	166 A <sup>2</sup> s	1ms≤t<8.3ms

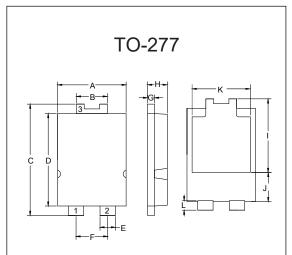
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + CI) and <1000ppm antimony compounds.

2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

### **Internal Structure**

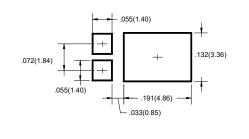


# 5 Amp Schottky Barrier Rectifier 60 Volts



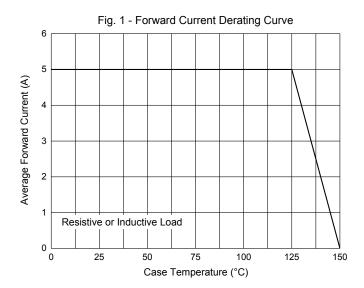
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.154	0.161	3.90	4.10			
В	0.067	0.075	1.70	1.90			
С	0.252	0.260	6.40	6.60			
D	0.209	0.217	5.30	5.50			
Е	0.031	0.039	0.80	1.00			
F	0.071	0.075	1.80	1.90			
G	0.014	0.018	0.35	0.45			
Н	0.043	0.047	1.10	1.20			
- 1	0.161	0.177	4.10	4.50			
J	0.059	0.075	1.50	1.90			
K	0.114	0.134	2.90	3.40			
L	0.022	0.030	0.55	0.75			

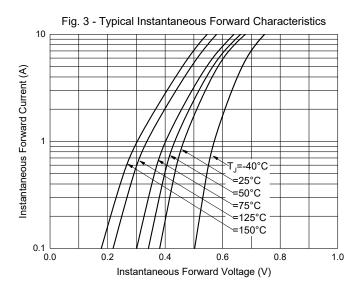
## **Suggested Solder Pad Layout**

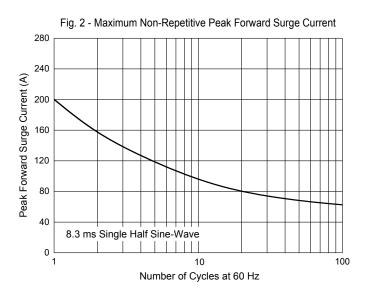


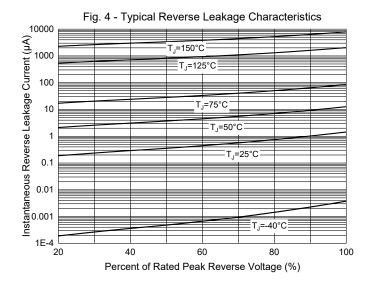


## **Curve Characteristics**











## **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel: 4Kpcs/Reel	

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