

#### **Features**

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Ultra-Small Surface Mount Package
- High Reliability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisure Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)

# 0.5 Amp Schottky Barrier Rectifier 30 Volts

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +100°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 200°C/W Junction to Ambient(Note2)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
MBR0530L2	R3	30V	30V

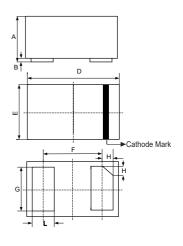
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	0.5A	
Peak Forward Surge Current	I <sub>FSM</sub>	3A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage Drop	V <sub>F</sub>	0.18V 0.20V 0.27V 0.36V 0.54V	I <sub>F</sub> =0.1mA; I <sub>F</sub> =1mA; I <sub>F</sub> =10mA; I <sub>F</sub> =100mA; I <sub>F</sub> =500mA;
Maximum Reverse Leakage Current	I <sub>R</sub>	0.2mA 0.5mA	V <sub>R</sub> =10V V <sub>R</sub> =30V
Typical Junction Capacitance	CJ	32pF	Measured at 1.0MHz,V <sub>R</sub> =0V

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

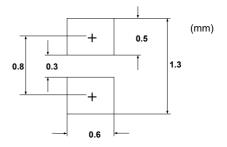
2. Device mounted a 20\*15mm FR-4 PCB, with both 10\*8mm pad 1oz. thick copper, single sided.

# DFN1006-2



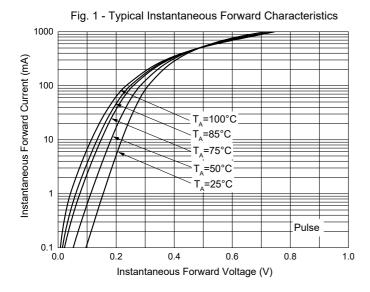
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.013	0.022	0.34	0.55		
В	0.000	0.002	0.00	0.05		
D	0.037	0.043	0.95	1.08		
Е	0.022	0.027	0.55	0.68		
F	0.026 REF.		0.650 REF.			
G	0.016	0.024	0.40	0.60		
Н	0.003	0.007	0.07	0.17		
L	0.008	0.012	0.20	0.30		

#### SUGGESTED SOLDER PAD LAYOUT





#### **Curve Characteristics**



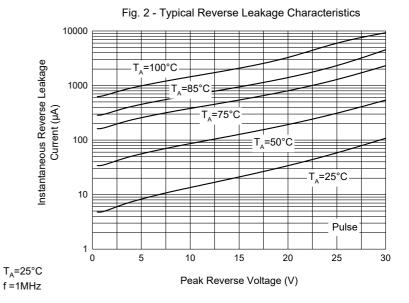
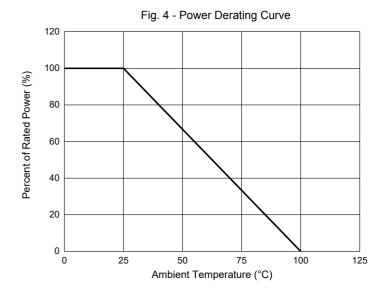


Fig. 3 - Capacitance Characteristics Capacitance (pF)  $V_{R}(V)$ 





### **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel10Kpcs/Reel	

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