

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)

1 Amp Schottky Barrier Rectifier 40 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 250°C/W Junction to Ambient

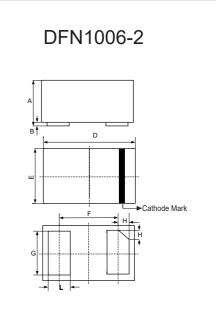
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
SM5819L2	4A	40V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current((Note 2)	I _{F(AV)}	1.0A	
Peak Forward Surge Current	I _{FSM}	10A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage Drop	V _F	0.3V 0.4V 0.5V 0.6V	I _F =10mA; I _F =100mA; I _F =500mA; I _F =1.0A;
Maximum Reverse Leakage Current	I _R	0.06mA	V _R =40V
Typical Junction Capacitance	CJ	90pF	Measured at 1.0MHz,V _R =0V

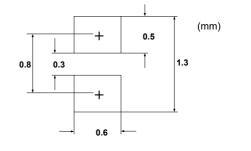
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Squre wave : σ = 0.5



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	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

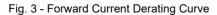


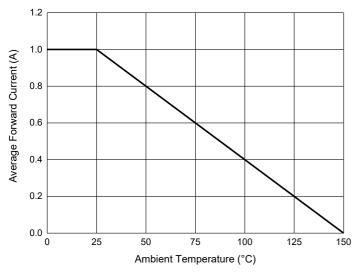




5 2 Instantaneous Forward Current (A) 1 T_{.1}=125°C 0.5 0.2 T_J=75°C 0.1 0.05 T_J=25°C 0.02 0.01 0.0 0.1 0.4 0.5 0.6 0.7 0.8 0.2 0.3 Instantaneous Forward Voltage (V)

Fig. 1 - Typical Instantaneous Forward Characteristics





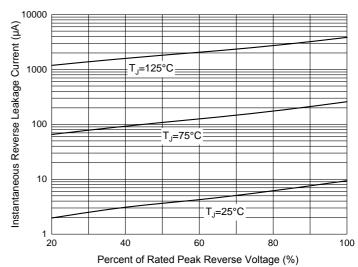


Fig. 2 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel10Kpcs/Reel	

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