

## 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
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)

## 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

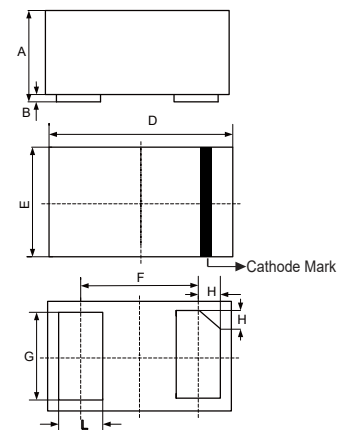
Average Forward Current((Note 2)	$I_{F(AV)}$	1.0A	
Peak Forward Surge Current	$I_{FSM}$	10A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage Drop	$V_F$	0.3V 0.4V 0.5V 0.6V	$I_F=10mA$ ; $I_F=100mA$ ; $I_F=500mA$ ; $I_F=1.0A$ ;
Maximum Reverse Leakage Current	$I_R$	0.06mA	$V_R=40V$
Typical Junction Capacitance	$C_J$	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. Square wave :  $\sigma = 0.5$

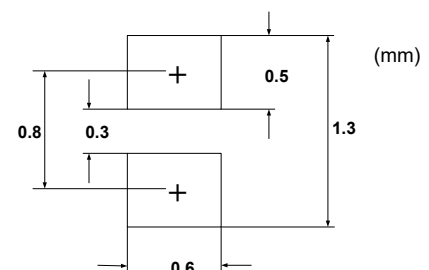
# 1 Amp Schottky Barrier Rectifier 40 Volts

## DFN1006-2



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

## SUGGESTED SOLDER PAD LAYOUT



**Curve Characteristics**

Fig. 1 - Typical Instantaneous Forward Characteristics

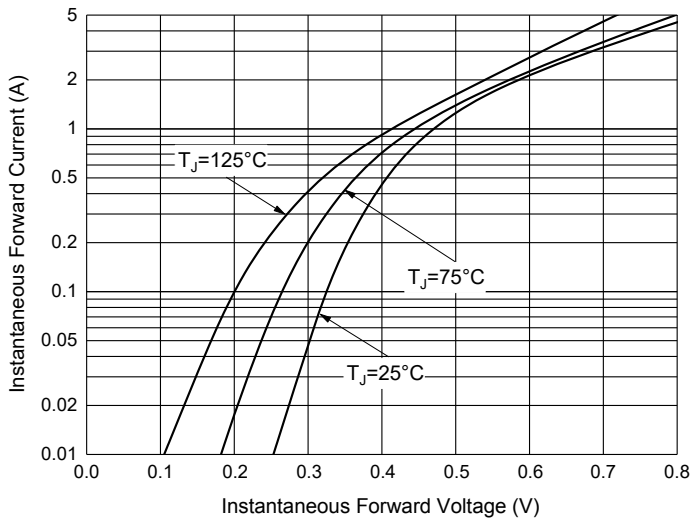


Fig. 2 - Typical Reverse Leakage Characteristics

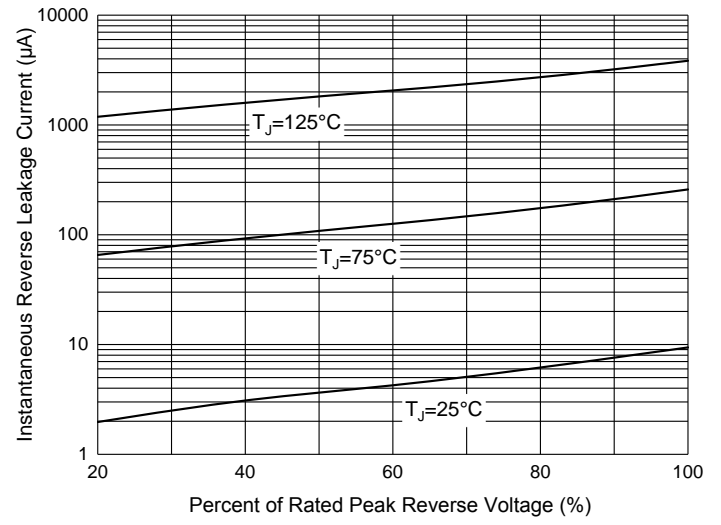
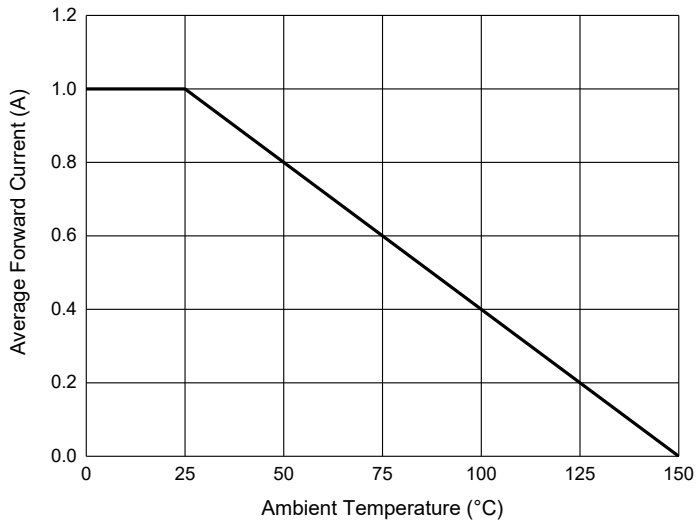


Fig. 3 - Forward Current Derating Curve



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel;10Kpcs/Reel

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