



Micro Commercial Components



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SM5819L2

1 Amp Schottky Barrier Rectifier 40 Volts

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 available upon request by adding suffix "-HF"

Maximum Ratings

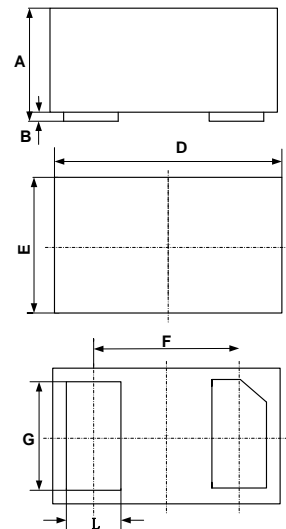
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +50°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current((Note1)	$I_{F(AV)}$	1.0A	
Peak Forward Surge Current	I_{FSM}	10A	8.3ms, half sine
Maximum Instantaneous Forward Voltage Drop	V_F	0.3V	$I_F = 10mA$
		0.4V	$I_F = 100mA$
		0.5V	$I_F = 500mA$
		0.6V	$I_F = 1.0A$
Maximum Reverse Leakage Current	I_R	0.06mA	$V_R = 40V$
Typical Junction Capacitance	C_j	90pF	Measured at 1.0MHz, $V_R=0V$

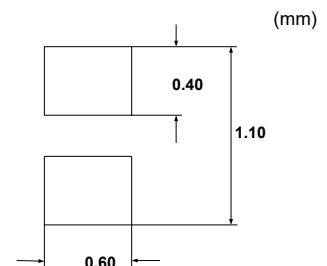
Note: 1. Square wave : $\sigma = 0.5$

DFN1006-2

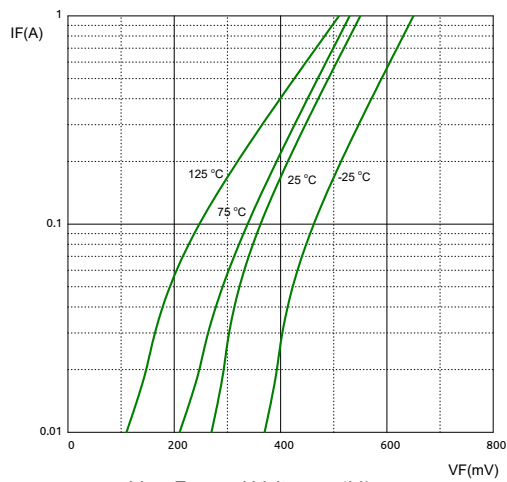


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.013	0.020	0.34	0.50	
B	0.000	0.002	0.00	0.05	
D	0.037	0.043	0.95	1.08	
E	0.022	0.027	0.55	0.68	
F	0.026	REF.	0.650	REF.	
G	0.016	0.024	0.40	0.60	
L	0.008	0.012	0.20	0.30	

SUGGESTED SOLDER PAD LAYOUT



Typical Characteristics



V_F – Forward Voltage (V)
Fig 1. Forward Voltage

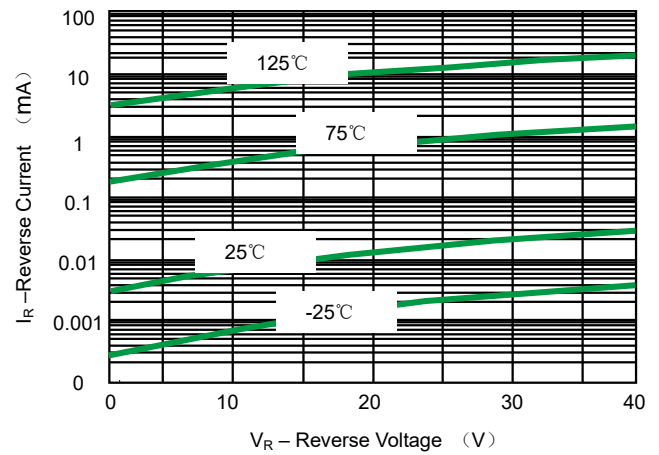


Fig 2. Leakage Current

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel:10Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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