

Features

- Halogen Free. "Green" Device (Note 1)
- Guard Ring Protection
- Low Forward Voltage Drop
- For Use In Low Voltage, High Frequency Inverters
- High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +125°C
- Storage Temperature Range: -65°C to +150°C
- Maximum Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B5819WSL	SL	40V	28V	40V

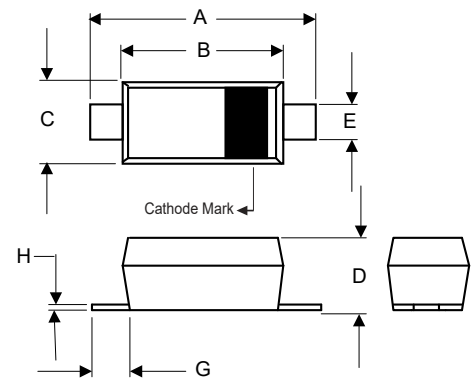
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	
Repetitive Peak Forward Current	I_{FRM}	7A	$t_p \leq 1ms$; Duty Cycle $\leq 25\%$
Peak Forward Surge Current	I_{FSM}	10A	$t = 8.3ms$ Half Sine
Power Dissipation	P_D	250mW	
Maximum Instantaneous Forward Voltage	V_F	0.60V 0.52V(Typ) 0.90V	$I_{FM} = 1.0A$; $T_J = 25^\circ C$ (Note 2) $I_{FM} = 3.0A$; $T_J = 25^\circ C$ (Note 2)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	50µA	$T_J = 25^\circ C$
Typical Junction Capacitance	C_J	120pF	Measured at 1.0MHz, $V_R = 4.0V$

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. Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

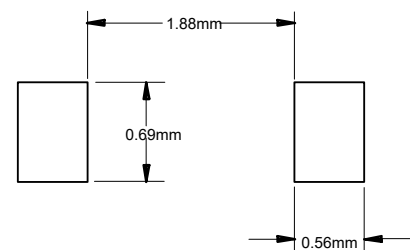
**1 Amp
Schottky Barrier
Rectifier
40 Volts**

SOD-323FL



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.078	1.60	1.95	
C	0.045	0.053	1.15	1.35	
D	0.024	0.035	0.60	0.90	
E	0.010	0.016	0.25	0.40	
G	0.016		0.40		
H	0.002	0.008	0.05	0.21	

EgYYWfW EaVWBSV >Skagf



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

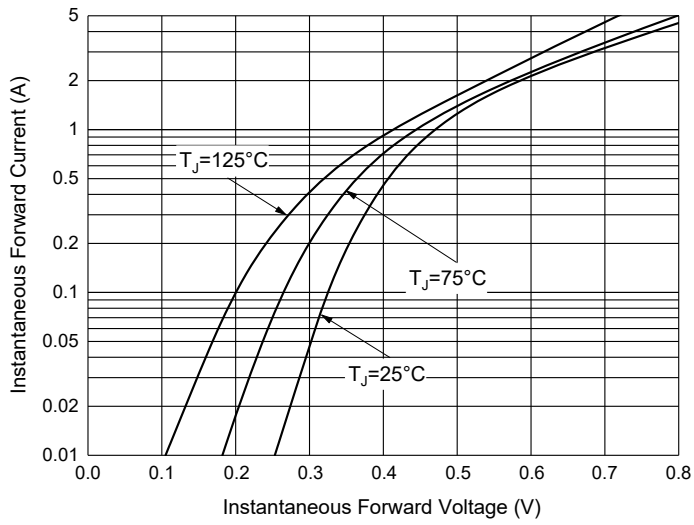


Fig. 2 - Typical Reverse Leakage Characteristics

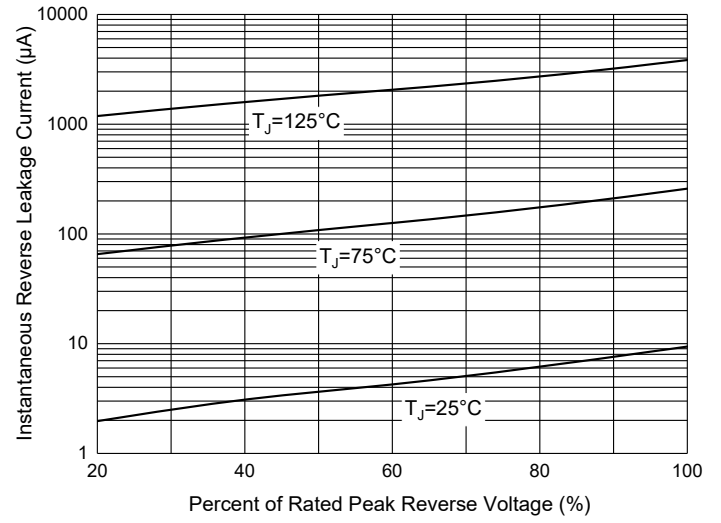
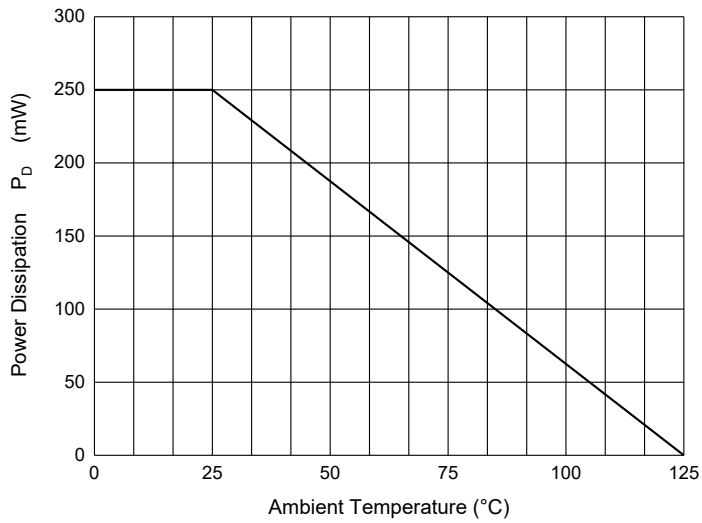


Fig. 3 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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