

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Extremely Low Thermal Resistance
- For Surface Mount Application and High Current Capability
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 244°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B0520WTL	SD	20V	14V	20V

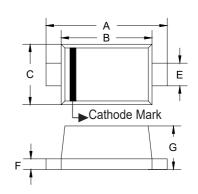
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	0.5A	T _L = 100°C
Non-Repetitive Peak Forward Surge Current	I _{FSM}	5.5A	8.3ms Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.30V 0.385V 0.22V 0.33V	I _F =0.1A, T _J =25°C I _F =0.5A, T _J =25°C I _F =0.1A, T _J =100°C I _F =0.5A, T _J =100°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	75μΑ 250μΑ 5.0mA 8.0mA	$V_R = 10V, T_J=25^{\circ}C$ $V_R = 20V, T_J=25^{\circ}C$ $V_R = 10V, T_J=100^{\circ}C$ $V_R = 20V, T_J=100^{\circ}C$
Typical Junction Capacitanc	С	170pF	V _R =0, f=1MHz
Power Dissipation	P _D	200mW	

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

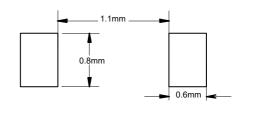
0.5 Amp Low VF Schottky Rectifier 20 Volts

SOD-523



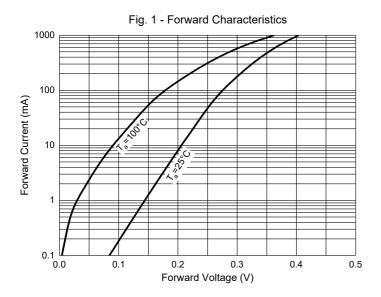
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.059	0.067	1.50	1.70			
В	0.043	0.051	1.10	1.30			
С	0.030	0.033	0.75	0.85			
E	0.010	0.014	0.25	0.35			
F	0.003	0.008	0.08	0.20			
G	0.020	0.026	0.50	0.65			

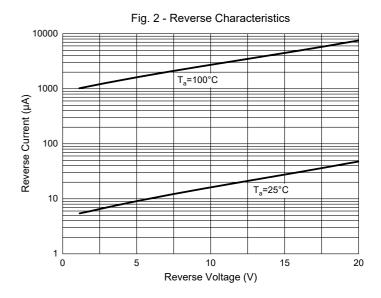
Suggested Solder Pad Layout

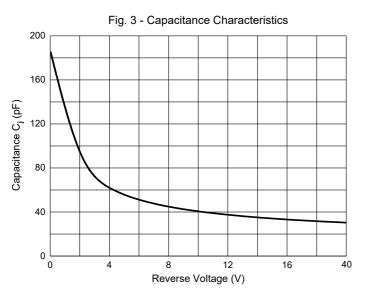




Curve Characteristics









Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 8Kpcs/Reel	

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