

B0520WTL

0.5 Amp Schottky Rectifier 20 Volts

Features

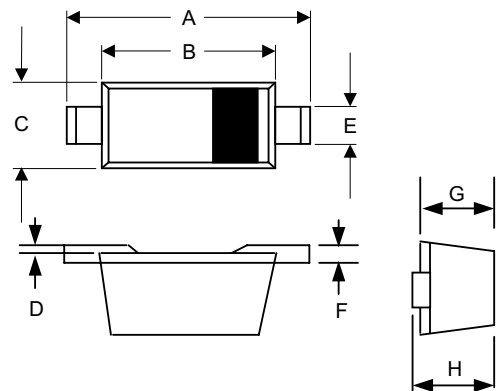
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Extremely Low Thermal Resistance
- For Surface Mount Application and High Current Capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

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

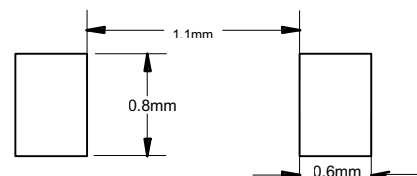
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B0520WTL	SD	20V	14V	20V

SOD-523



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.5A	$T_L=100^\circ\text{C}$
Non-Repetitive Peak Forward Surge Current	I_{FSM}	5.5A	8.3ms half sine
Maximum Instantaneous Forward Voltage	V_F	0.30V	$I_F=0.1\text{A}, T_J=25^\circ\text{C}$
		0.385V	$I_F=0.5\text{A}, T_J=25^\circ\text{C}$
		0.22V	$I_F=0.1\text{A}, T_J=100^\circ\text{C}$
		0.33V	$I_F=0.5\text{A}, T_J=100^\circ\text{C}$
Maximum DC Reverse Current	I_R	75uA	$V_R=10\text{V}, T_J=25^\circ\text{C}$
		250uA	$V_R=20\text{V}, T_J=25^\circ\text{C}$
		5.0mA	$V_R=10\text{V}, T_J=100^\circ\text{C}$
		8.0mA	$V_R=20\text{V}, T_J=100^\circ\text{C}$
Typical Junction Capacitance	C_J	170pF	$V_R=0, f=1\text{MHz}$
Power Dissipation	P_D	200mW	

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TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

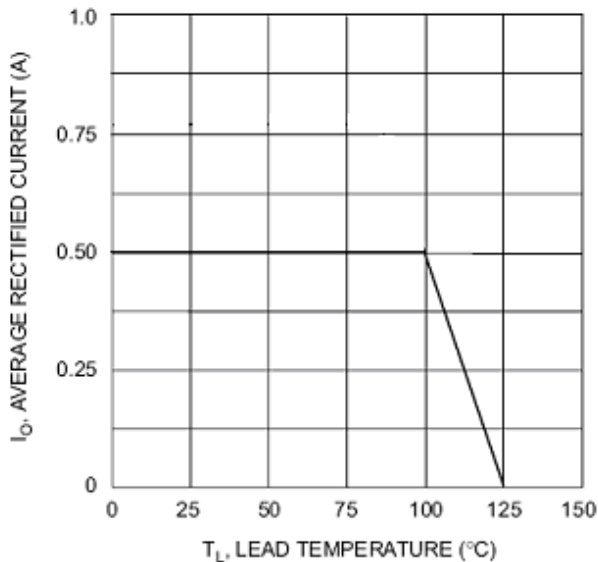


Fig. 1 Forward Current Derating Curve

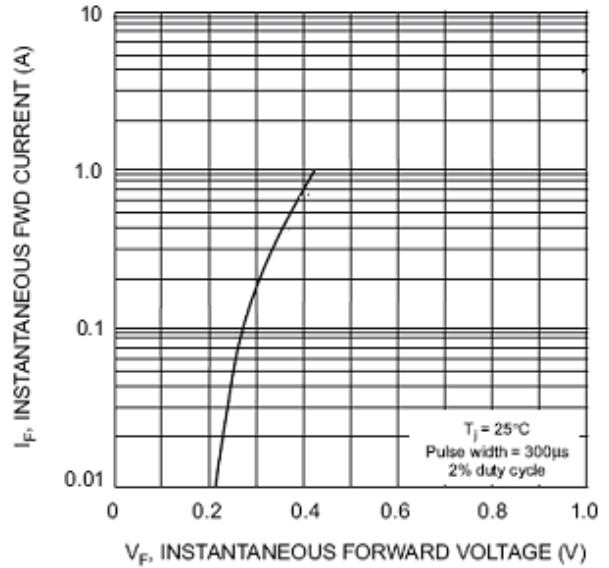


Fig. 2 Typical Forward Characteristics

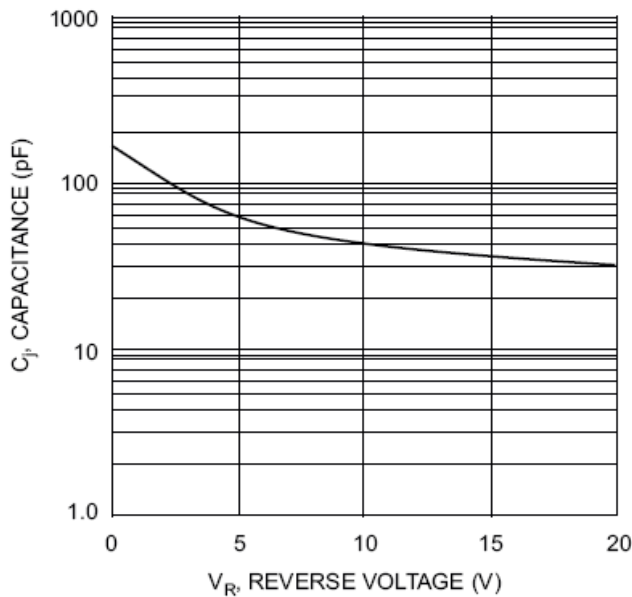


Fig. 3 Typ. Junction Capacitance vs Reverse Voltage

Ordering Information :

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

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

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