



**Micro Commercial Components** 

**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

### **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
- 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 +150°C
- Maximum Thermal Resistance: 400°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B0540WS	4	40V	28V	40V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

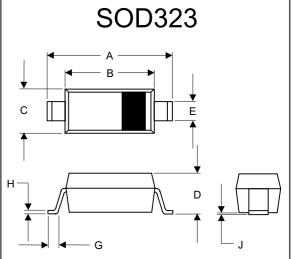
Average Forward Current	I <sub>F(AV)</sub>	0.5A	T <sub>a</sub> =25°C
Peak Forward Surge Current	I <sub>FSM</sub>	5A	8.3ms half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.55V	I <sub>FM</sub> =0.5A T <sub>J</sub> =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.08mA	V <sub>R</sub> =40V
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V
Power Dissipation	PD	250mW	

# **B0540WS**

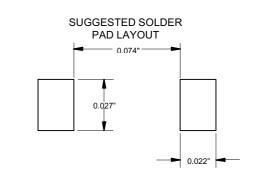
# 0.5 Amp Schottky

**Rectifier** 

40 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX			
А	.090	.113	2.30	2.88			
В	.063	.071	1.60	1.80			
С	.045	.053	1.15	1.35			
D	.031	.049	0.80	1.24			
Е	.010	.016	0.25	0.40			
G	.004	.018	0.10	0.45			
Н	.004	.010	0.10	0.25			
J		.006		0.15			



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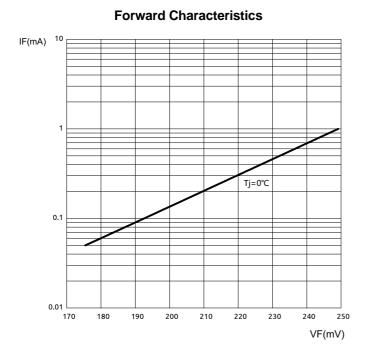


#### **Forward Characteristics** Reverse Characteristics 2000 1000 T\_=100 °C (M) € 100 FORWARD CURRENT REVERSE CURRENT IR 1 the c ŝ 100 0.1 10 T\_=25 °C 0.01 0.0 0.1 0.4 0.6 0.8 30 10 40 50 60 0.2 0 20 FORWARD VOLTAGE V<sub>F</sub> (V) REVERSE VOLTAGE V<sub>R</sub> (V) **Capacitance Characteristics Power Derating Curve** 120 300 T\_=25℃ f=1MHz CAPACITANCE BETWEEN TERMINALS 100 (MM) 250 **ഫ**<sup>\_</sup> 200 80 POWER DISSIPATION (PF) 60 150 ഗ് 40 100 20 50 0 1 0 L 0 10 12 18 20 2 4 6 8 14 16 25 50 75 100 125 REVERSE VOLTAGE V<sub>R</sub> (V) AMBIENT TEMPERATURE (°C)

### **Typical Characteristics**

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### **Ordering Information :**

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

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

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