

Micro Commercial Components 20736 Marilla Street Chatsworth **Micro Commercial Components** 

CA 91311

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# **B0530WS**

## **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
- Higher Temp Soldering: 260°C for 10 Seconds At Terminals
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

# **Maximum Ratings**

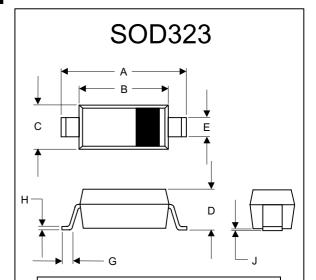
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 5°C/W Junction to Lead
- Halogen free available upon request by adding suffix "-HF"

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B0530WS	3 / SE	30V	21V	30V

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

Average Forward Current	I <sub>F(AV)</sub>	0.5A	T <sub>J</sub> =90°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>	0.3mA	T <sub>A</sub> =25°C
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V
Power Dissipation	P <sub>D</sub>	250mW	

# 0.5 Amp **Schottky Rectifier** 30 Volts



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.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		

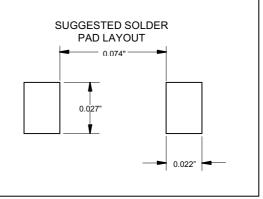




Figure 1 Typical Forward Characteristics

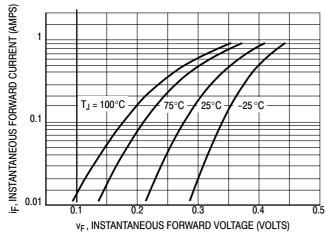
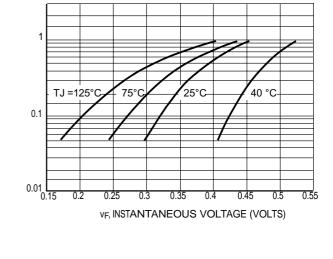


Figure 3
Typical Forward Characteristics



Typical Forward Characteristics

Figure 2

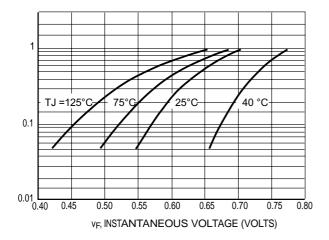
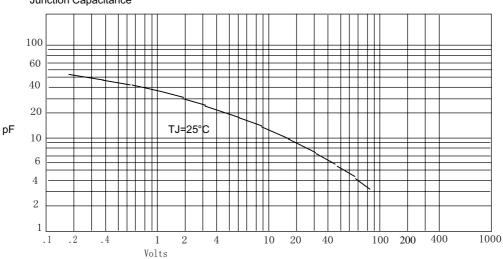


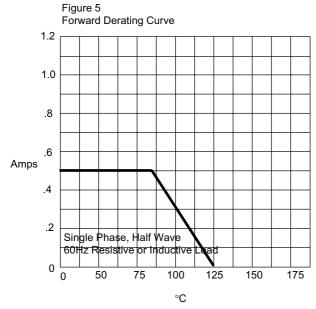
Figure 4
Junction Capacitance



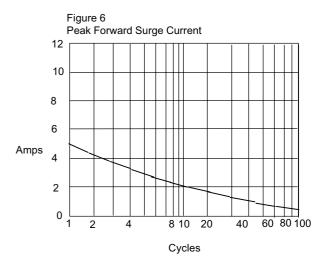


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Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



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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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