

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**Micro Commercial Components** 



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## **B0530WS**

## 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

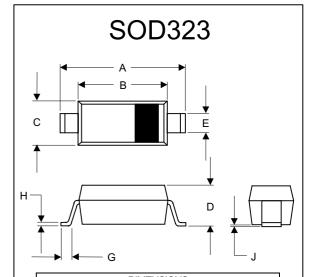
• Halogen free available upon request by adding suffix "-HF"

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		

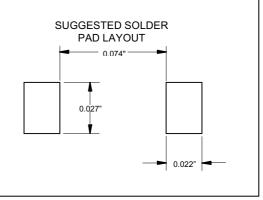




Figure 1 Typical Forward Characteristics

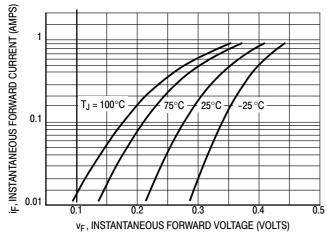
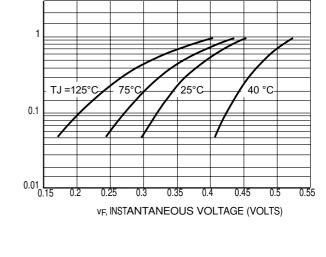


Figure 3
Typical Forward Characteristics



Typical Forward Characteristics

Figure 2

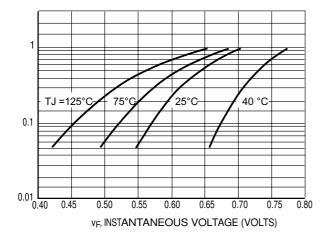
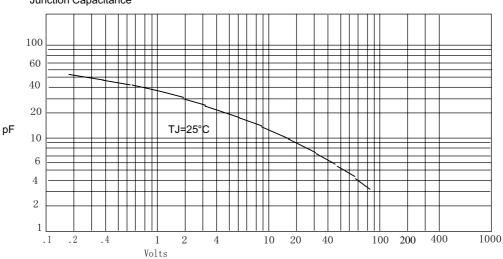


Figure 4
Junction Capacitance

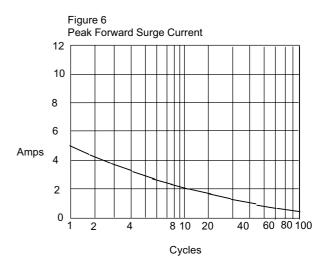




## B0530WS

Figure 5 Forward Derating Curve 1.2 1.0 .8 .6 Amps .4 Single Phase, Half Wave 60Hz Resistive or Inductive 0 50 75 100 125 150 175 °C

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



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



#### **Micro Commercial Components**

## **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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