

## Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- High Reliability
- Low Reverse Current and Low Forward Voltage
- Small Surface Mount Type
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 1)

# **Maximum Ratings**

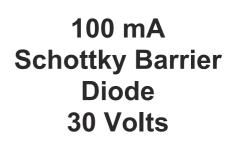
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1000°C/W Junction to Ambient

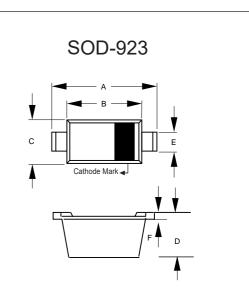
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
RB521CS-30	F	30V	30V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Mean Rectifying Current	Ι <sub>ο</sub>	100mA	
Peak Forward Surge Current	I <sub>FSM</sub>	0.5A	60Hz,1cyc
Forward Voltage	V <sub>F</sub>	0.35V(Max) 0.40V(Max) 1.00V(Max)	I <sub>F</sub> =10mA; I <sub>F</sub> =20mA; I <sub>F</sub> =100mA;
Reverse Current	I <sub>R</sub>	10µА(Мах) 50µА(Мах)	V <sub>R</sub> =10V V <sub>R</sub> =30V
Power Dissipation	P <sub>D</sub>	100mW	

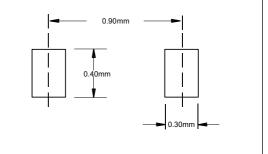
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.





DIMENSIONS							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
Α	0.037	0.041	0.95	1.05			
В	0.030	0.033	0.75	0.85			
С	0.022	0.026	0.55	0.65			
D	0.014	0.017	0.36	0.43			
E	0.006	0.010	0.15	0.25			
F	0.003	0.007	0.07	0.17			

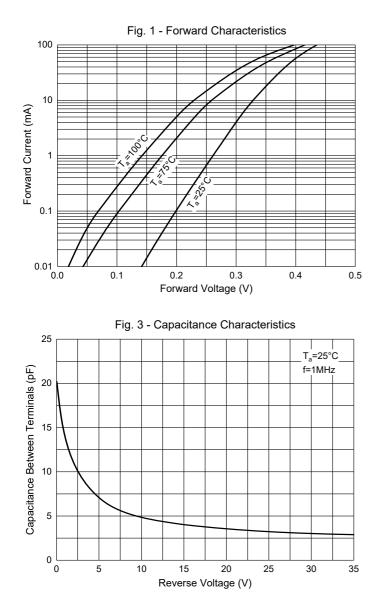
#### Suggested Solder Pad Layout

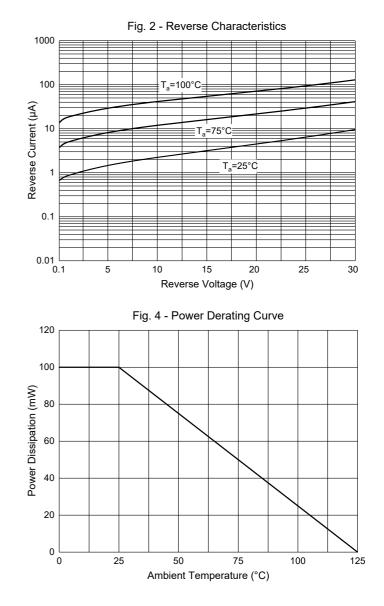






# **Curve Characteristics**







# **Ordering Information**

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

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