

## Features

- Halogen Free. "Green" Device (Note1)
- AEC-Q101 Qualified
- 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)

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 667°C/W Junction to Ambient

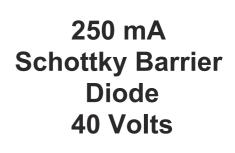
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
RB520S-40HE3	D1	40V	40V

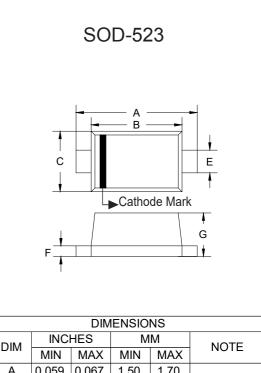
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Mean Rectifying Current	Ι <sub>ο</sub>	250mA	
Peak Forward Surge Current	I <sub>FSM</sub>	1A	t=8.3ms
Power Dissipation	P <sub>D</sub>	150mW	
Forward Voltage	V <sub>F</sub>	0.30V(Typ) 0.39V(Max) 0.45V(Typ) 0.55V(Max)	I <sub>F</sub> =10mA; I <sub>F</sub> =100mA;
Reverse Current	I <sub>R</sub>	0.6μA(Typ) 1.0μA(Max) 2.8μA(Typ) 10μA(Max)	V <sub>R</sub> = 10V V <sub>R</sub> = 40V

### Note:

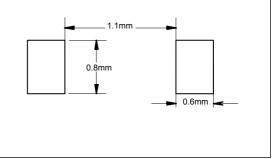
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.





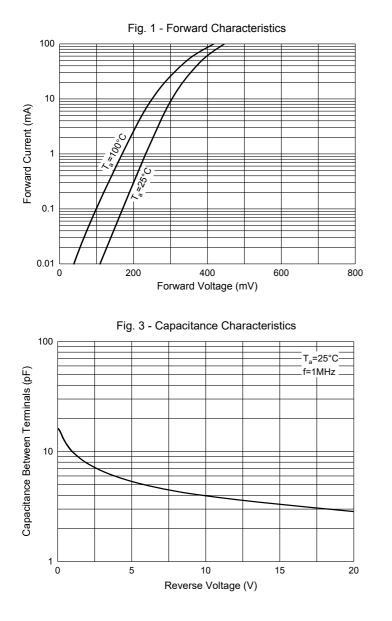
DIM	-				NOTE
	MIN	MAX	MIN	MAX	NOTE
A	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
E	0.010	0.014	0.25	0.35	
F	0.003	0.008	0.08	0.20	
G	0.020	0.026	0.50	0.65	

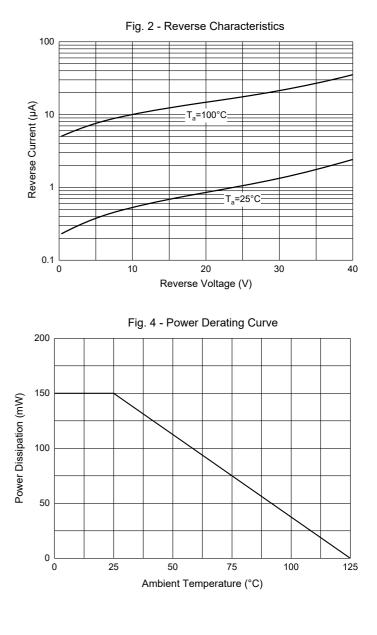
### Suggested Solder Pad Layout





# **Curve Characteristics**









# **Ordering Information**

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

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