

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

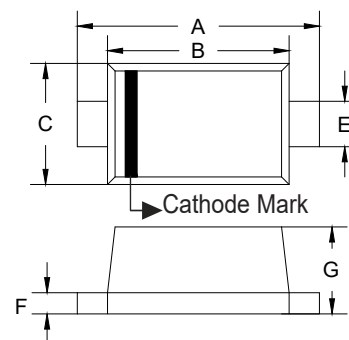
Mean Rectifying Current	I_O	250mA	
Peak Forward Surge Current	I_{FSM}	1A	$t=8.3ms$
Power Dissipation	P_D	150mW	
Forward Voltage	V_F	0.30V(Typ) 0.39V(Max) 0.45V(Typ) 0.55V(Max)	$I_F=10mA;$ $I_F=100mA;$
Reverse Current	I_R	0.6µA(Typ) 1.0µA(Max) 2.8µA(Typ) 10µA(Max)	$V_R = 10V$ $V_R = 40V$

Note:

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

250 mA Schottky Barrier Diode 40 Volts

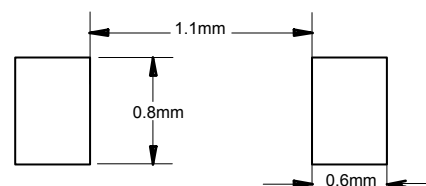
SOD-523



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.059	0.067	1.50	1.70	
B	0.043	0.051	1.10	1.30	
C	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

Fig. 1 - Forward Characteristics

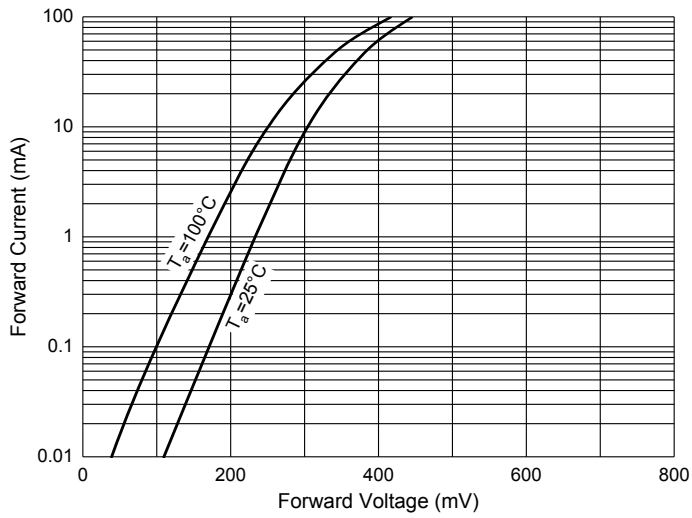


Fig. 2 - Reverse Characteristics

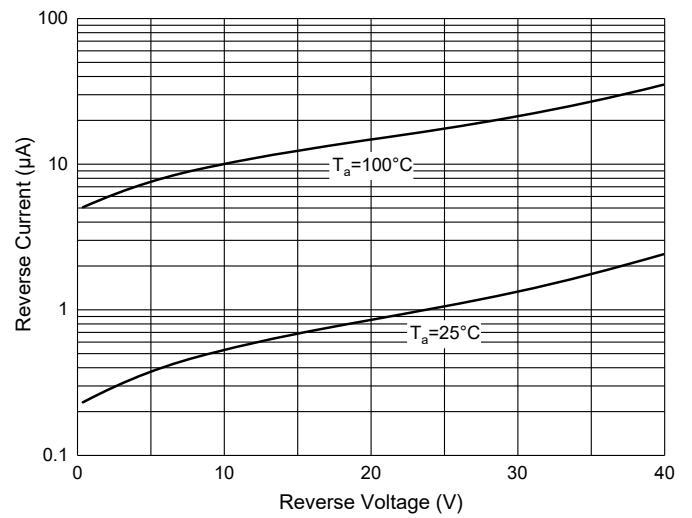


Fig. 3 - Capacitance Characteristics

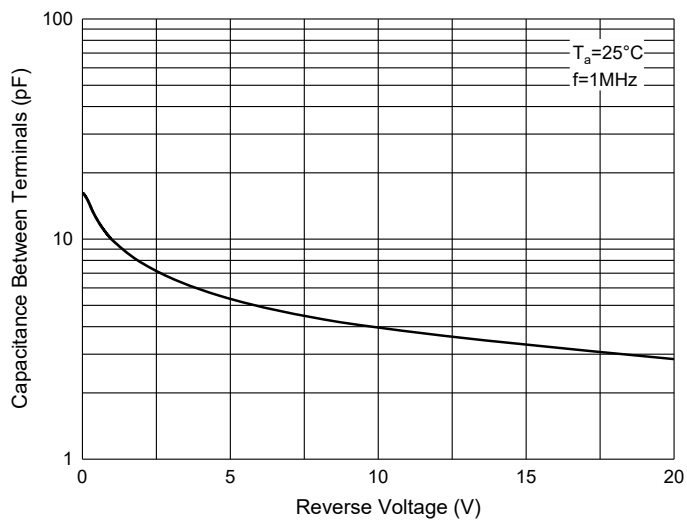
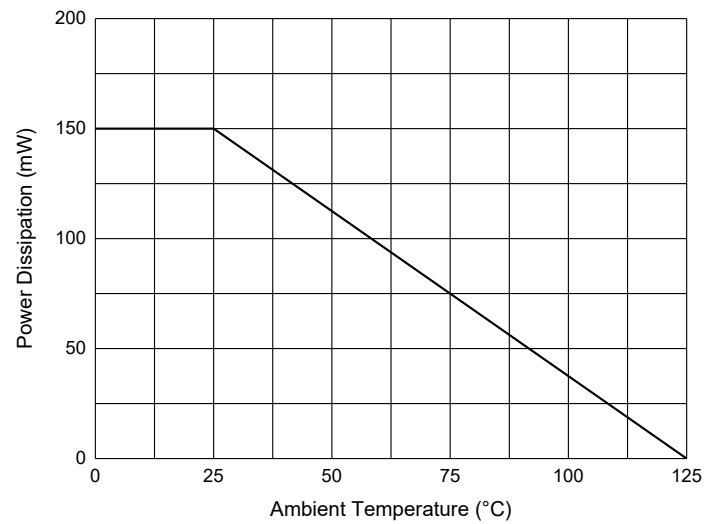


Fig. 4 - Power Derating Curve



Ordering Information

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

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