

Features

- Halogen Free. "Green" Device (Note 1)
- Low Voltage, Low Inductance
- · High Current Rectifier Schottky Diode
- For Power Supply
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- AEC-Q101Qualified

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2): 625°C/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RB751S-40HE3	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

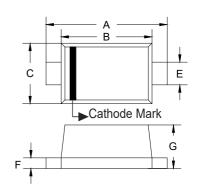
Average forward current	I _{F(AV)}	30mA	
Peak Forward Surge Current	I _{FSM}	1A	$t_p < 8.3 ms$
Power Dissipation	P _D	200mW	
Max Forward Voltage	V _F	0.37V	I _F =1mA
Max Reverse Current	I _R	0.5μΑ	V _R = 30V
Min Reverse Breakdown Voltage	V _(BR)	40V	I _R = 10uA
Max Junction Capacitance	CJ	5pF	V _R =0V, f=1MHz
Max Reverse Recovery Time	t _{rr}	7ns	$I_F=I_R=10\text{mA},I_{rr}=0.1\text{x}I_R,$ $R_L=100\Omega$

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

Note: 2. Part mounted on FR-4 board with recommended pad layout.

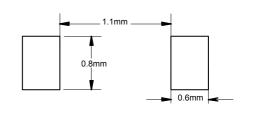
40 Volts Schottky Barrier Diode

SOD-523



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	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		

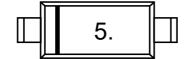
Suggested Solder Pad Layout





Internal Structure and Marking Code





Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

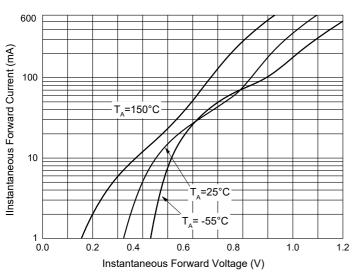
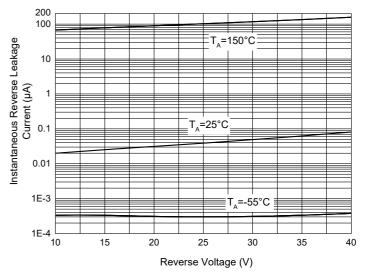
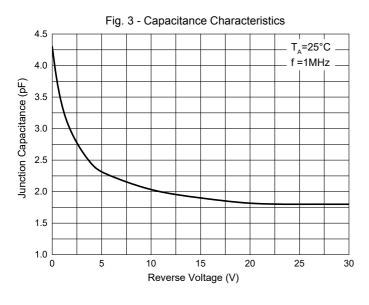
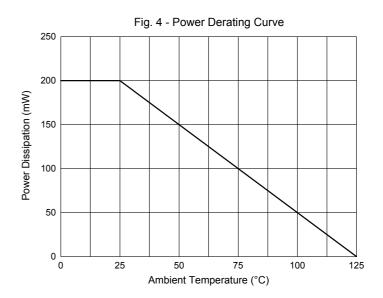


Fig. 2 - Typical Reverse Leakage Characteristics









Ordering Information

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

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