

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)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2): 500°C/W Junction to Ambient

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

Electrical Characteristics @ 25°C Unless Otherwise Specifie

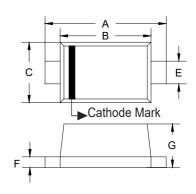
Mean Rectifying Current	Io	30mA	
Non-Repetitive Peak Forward Current	I _{FSM}	500mA	t=8.3ms
Power Dissipation	P _D	200mW	
Forward Voltage	V _F	0.37V(Max)	I _F =1mA
Reverse Current	I _R	0.5µA(Max)	V _R = 30V
Minimum Reverse Breakdown Voltage	V _(BR)	30V	I _R =10μA
Capacitance Between Terminals	C _T	2pF	V _R =1V, f=1MHz
Max Reverse Recovery Time		7.0ns	$I_R=I_F=10\text{mA}$ $I_T=1\text{mA}$, $R_L=100\Omega$

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

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

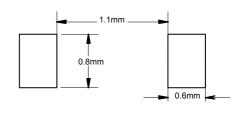
40 Volts Schottky Barrier Diode





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		
Е	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



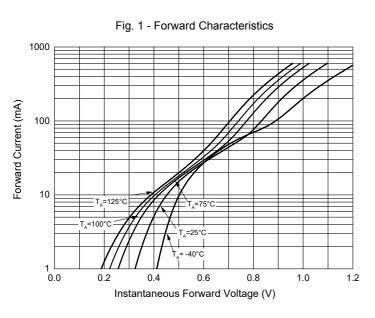


Internal Structure and Marking Code





Curve Characteristics



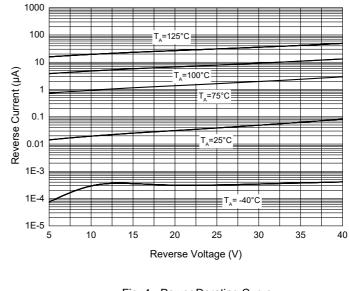
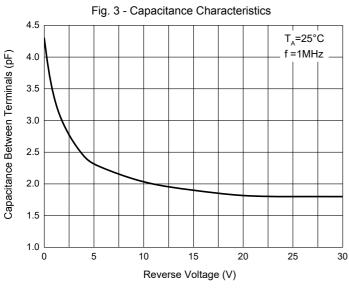
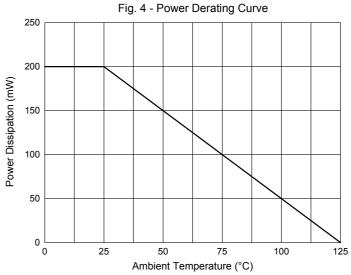


Fig. 2 - Reverse Characteristics







Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 8Kpcs/Reel	
Part Number-T3P	Tape&Reel: 3Kpcs/Reel	

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