

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

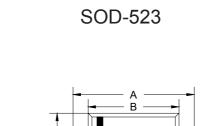
Electrical Characteristics @ 25°C Unless Otherwise Specifie

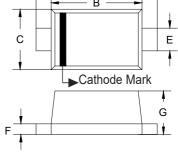
Mean Rectifying Current	Io	30mA	
Non-Repetitive Peak Forward Current	I _{FSM}	500mA	t=8.3ms
Power Dissipation	P _D	200mW	
Forward Voltage	V _F	0.37V(Max)	I _F =1mA
Reverse Current	I _R	0.5µA(Max)	V _R = 30V
Minimum Reverse Breakdown Voltage		30V	I _R =10μA
Capacitance Between Terminals	C _T	2pF	V _R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

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.

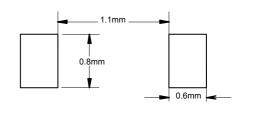
40 Volts Schottky Barrier Dioder





DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	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

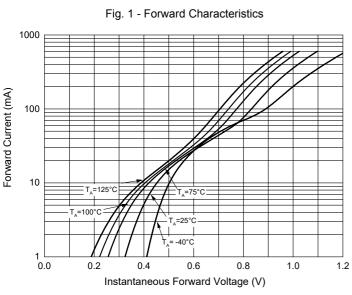
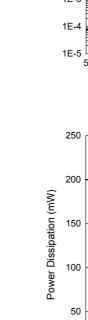


Fig. 3 - Capacitance Characteristics

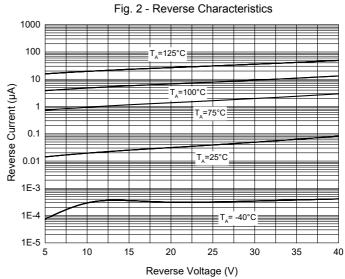
15

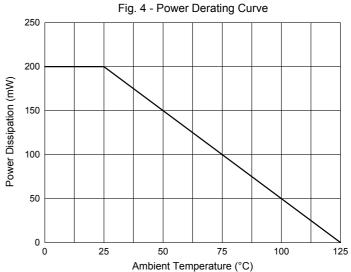
Reverse Voltage (V)



T_A=25°C f=1MHz

25





4.5

4.0

3.5

3.0

2.5

2.0

1.5

1.0

Capacitance Between Terminals (pF)



Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages. Micro Commercial Components Corp. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.