

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS A Compliant. See Ordering Information)
- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Part Marking: D3A

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 400°C/W Junction to Ambient

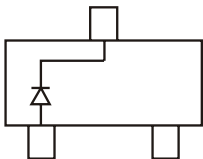
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
RB400DS	D3A	40V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Mean Rectifying Current	I_O	0.5A	
Peak Forward Surge Current	I_{FSM}	3.0A	t=8.3ms
Forward Voltage	V_F	0.55V(Max)	$I_F=0.5A$
Reverse Current	I_R	50µA(Max) 30µA(Max)	$V_R = 30V$ $V_R = 10V$
Capacitance Between Terminals	C_T	125pF(Typ) 20pF(Typ)	$V_R=0V, f=1MHz$ $V_R=10V, f=1MHz$

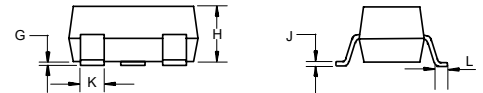
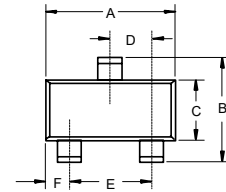
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure:



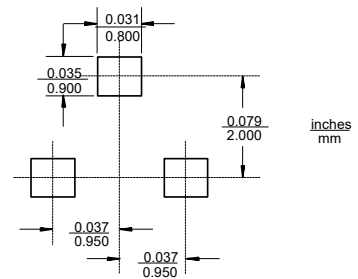
**0.5 Amp
Schottky
Barrier Rectifier
40 Volts**

SOT-23



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
H	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Characteristics

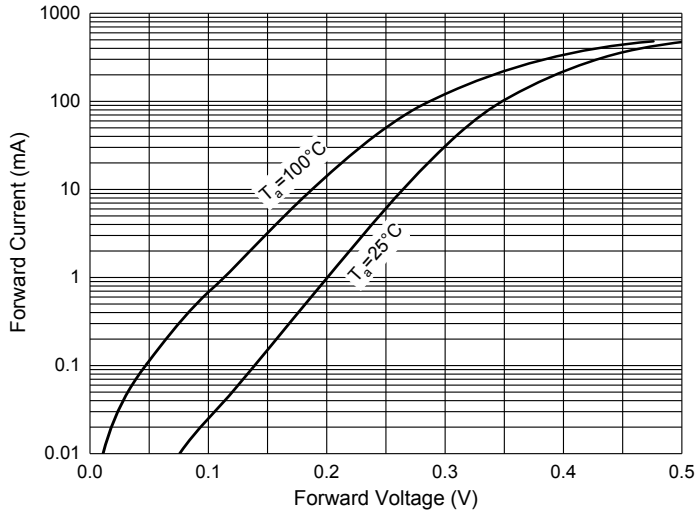


Fig. 2 - Reverse Characteristics

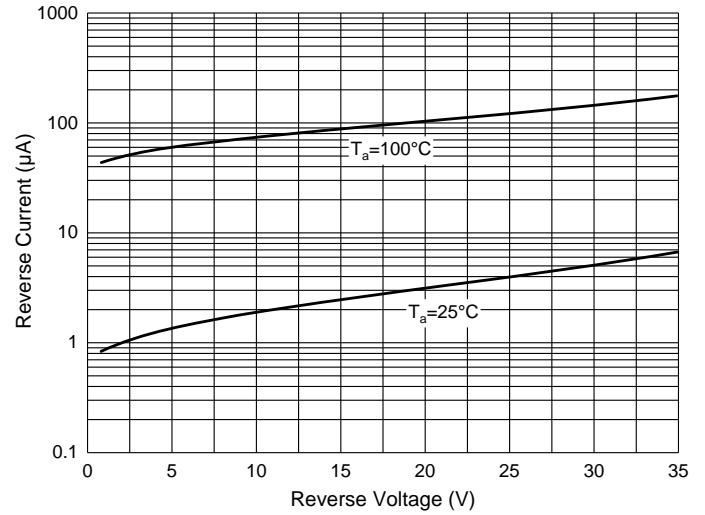


Fig. 3 - Capacitance Characteristics

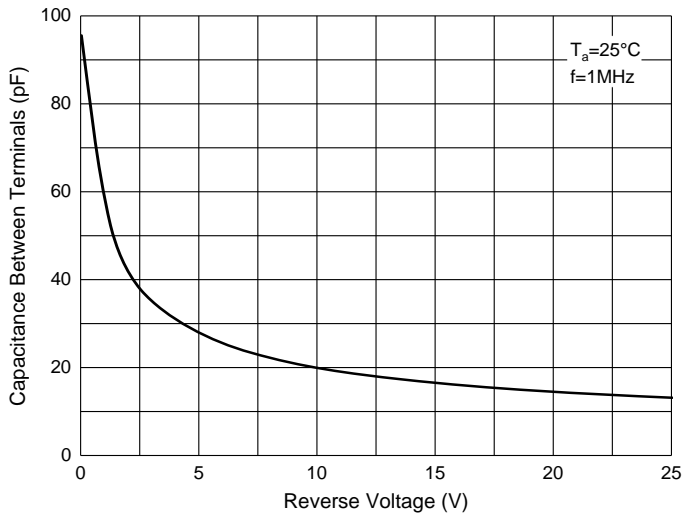
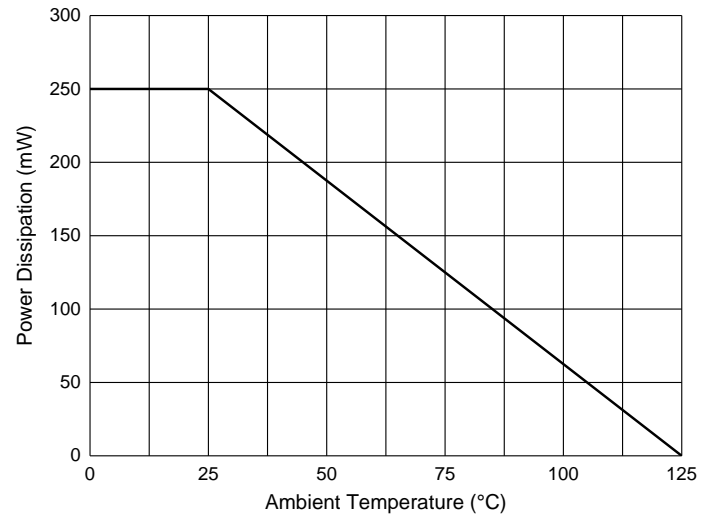


Fig. 4 - Power Derating Curve



Ordering Information

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

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