

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHSÁ 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
- Pæ[*^}ÁØ!^^ÈÁG¦^^} +ÄÖ^çæ&^ÁÇÞ[&^ÁFD

Maximum Ratings

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

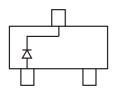
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
RB420DS	A2	40V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Mean Rectifying Current	I _O	100mA	
Peak Forward Surge Current	I _{FSM}	1.0A	
Forward Voltage	V _F	0.45V(Max)	I _F =10mA
Reverse Current	I _R	1µA(Max)	V _R = 10V
Capacitance Between Terminals	Ст	6pF(Typ)	V _R =10V, f=1MHz

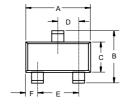
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine,
########<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

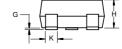
Internal Structure:

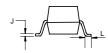


0.1 Amp Schottky Barrier Rectifier 40 Volts

SOT-23

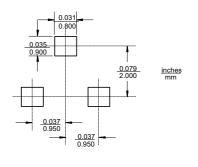






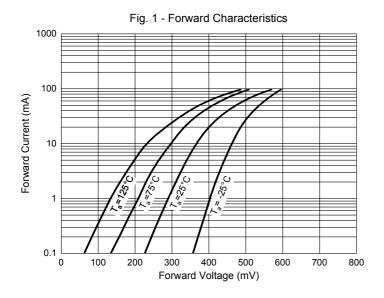
DIMENSIONS							
DIM	INCHES		MM		NOTE		
Dilvi	MIN	MAX	MIN	MAX	NOTE		
Α	0.110	0.120	2.80	3.04			
В	0.083	0.104	2.10	2.64			
С	0.047	0.055	1.20	1.40			
D	0.034	0.041	0.85	1.05			
Е	0.067	0.083	1.70	2.10			
F	0.018	0.024	0.45	0.60			
G	0.0004	0.006	0.01	0.15			
Н	0.035	0.043	0.90	1.10			
J	0.003	0.007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

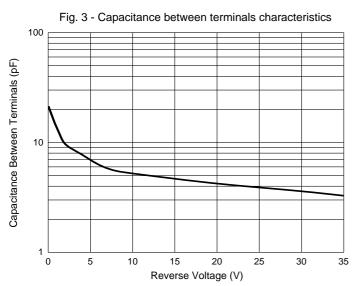
Suggested Solder Pad Layout

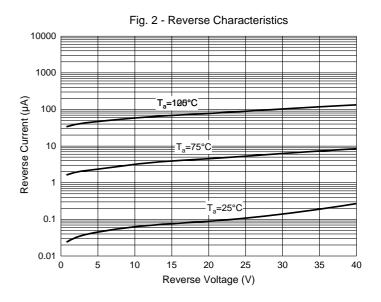


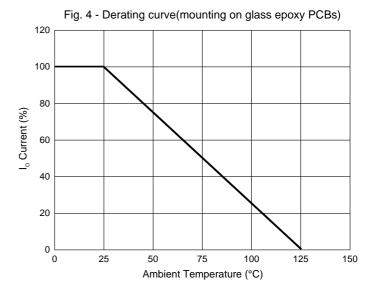


Curve Characteristics











Ordering Information

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

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