



Micro Commercial Components
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RB421D

Features

- Low VF (VF=0.45V Typ at 100mA)
- High reliability
- Small surface mounting type (SMD3)

Mechanical Data

- Case :SOT-346,Molded Plastic
- Low power rectification
- Silicon epitaxial planar

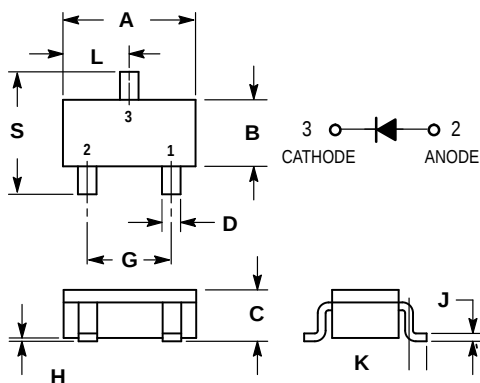
Maximum Ratings

- Operating Junction Temperature: 125°C
- Storage Temperature: -40°C to +125°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RB421D	D3C	40V	28V	40V

0.1 Amp Surface Mount Schottky Barrier Diode 40 Volts

SOT-346

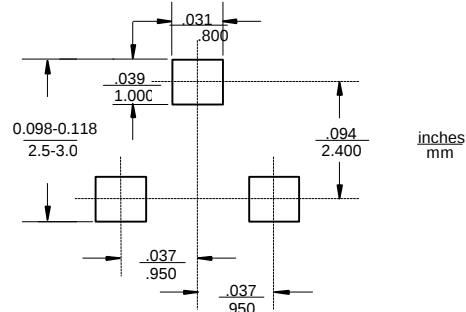


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.106	.122	2.70	3.10	
B	.051	.067	1.30	1.70	
C	.039	.051	1.00	1.30	
D	.014	.020	0.35	0.50	
G	.067	.091	1.70	2.30	
H	.000	.004	0.00	0.10	
J	.004	.010	0.10	0.26	
K	.008	.024	0.20	0.60	
L	.049	.065	1.25	1.65	
S	.089	.118	2.25	3.00	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.1A	$T_A = 25^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	1.0A	8.3ms, half sine
Maximum Forward Voltage	V_F	0.55V 0.34V	$I_{FM} = 100\text{mA}$ $I_{FM} = 10\text{mA}$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	30mA	$T_A = 25^\circ\text{C}$ $V_R = 10\text{V}$

Suggested Solder Pad Layout



RB421D

●Electrical characteristic curves (Ta = 25°C)

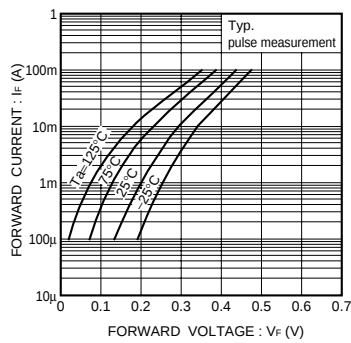


Fig. 1 Forward characteristics

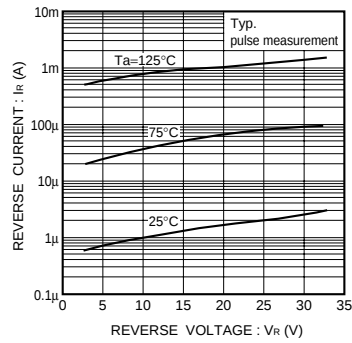


Fig. 2 Reverse characteristics

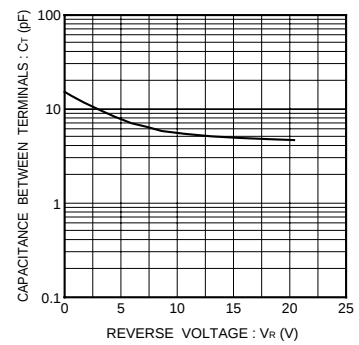


Fig. 3 Capacitance between terminals characteristics

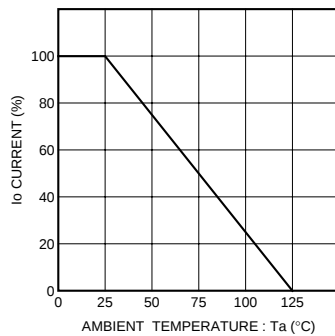


Fig. 4 Derating curve
(mounting on glass epoxy PCBs)