



Micro Commercial Components



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RB441Q

0.1 Amp Schottky Barrier Rectifier 40 Volts

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Low Current, Low V_F
- Glass Sealed Envelope for High Reliability (MSD)
- Silicon Epitaxial Planar Construction
- Moisture Sensitivity Level 1

Mechanical Data

- Case: DO-35 glass case
- Polarity: Color band denotes cathode end
- Weight: Approx. 0.13 gram

Maximum Ratings

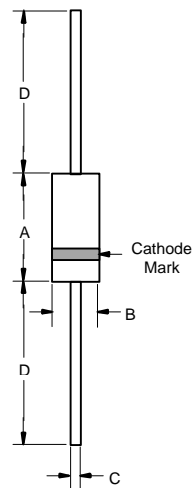
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	40	V
DC Reverse Voltage	V_R	40	V
Mean Rectifying Current	I_O	0.1	A
Peak Forward Surge Current	I_{FSM}	1	A
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-40 to 125	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Typical	Maximum	Unit
Forward Voltage @ $I_F=10mA$	V_{F1}		0.34	V
Forward Voltage @ $I_F=100mA$	V_{F2}	0.45	0.55	V
Reverse Current @ $V_R=40V$	I_R		100	uA
Capacitance Between Terminals @ $V_R=10V, f=1MHz$	C_T	6.0		pF

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-1.

DO-35



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	---	.150	---	3.8	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.083	---	27.50	---	

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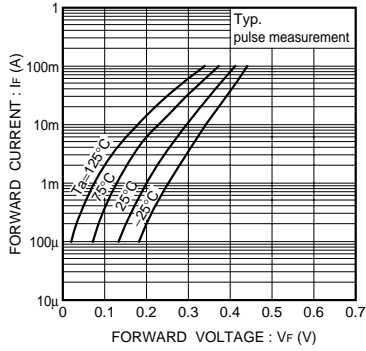


Fig. 1 Forward characteristics

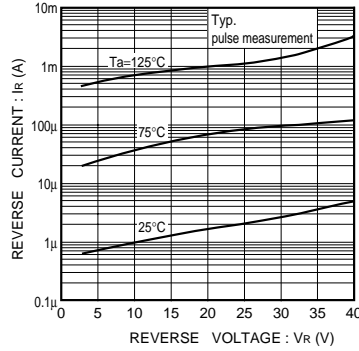


Fig. 2 Reverse characteristics

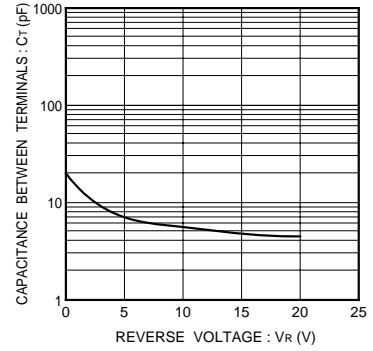


Fig. 3 Capacitance between terminals characteristics

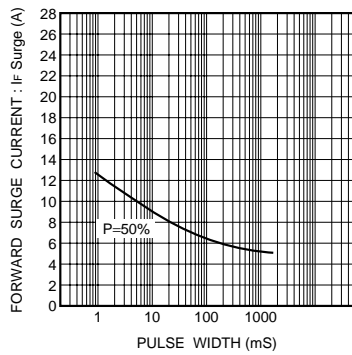


Fig. 4 Forward surge current characteristics

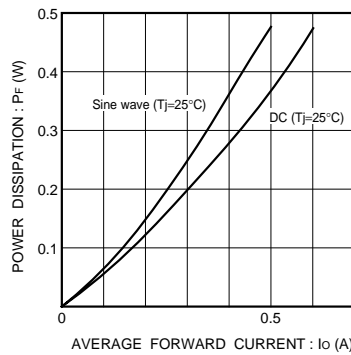


Fig. 5 Mean rectifying current characteristics

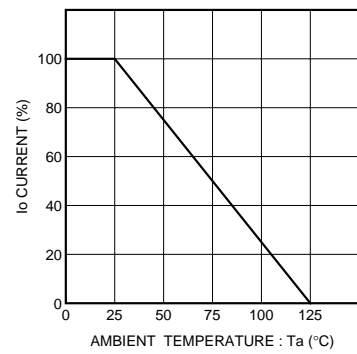


Fig. 6 Derating curve (mounting on glass epoxy PCBs)



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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