

™

# RB420D

## Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- # Small surface mounting type
- # Low reverse current and low forward voltage
- # High reliability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking:D3B

## Maximum Ratings

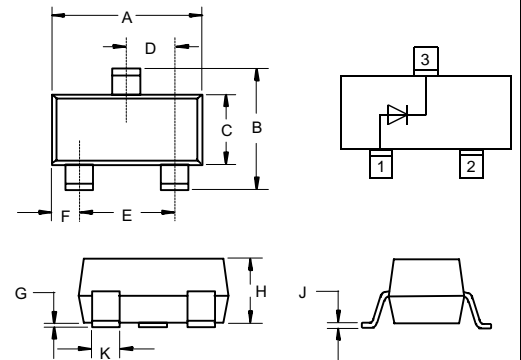
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	40	V
DC Reverse Voltage	$V_R$	40	V
Mean Rectifying Current	$I_O$	100	mA
Peak Forward Surge Current	$I_{FSM}$	1	A
Junction Temperature	$T_J$	125	
Storage Temperature	$T_{STG}$	-40 to 125	

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage @ $I_F=10mA$	$V_F$	---	---	0.45	V
Reverse Current @ $V_R=10V$	$I_R$	---	---	1	uA
Capacitance Between Terminals @ $V_R=10V, f=1MHz$	$C_T$	---	6	---	pF

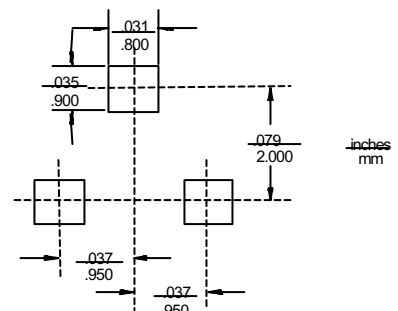
## 0.1 Amp Schottky Barrier Rectifier 40 Volts

### SOT-23



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

### Suggested Solder Pad Layout



# Typical Characteristics

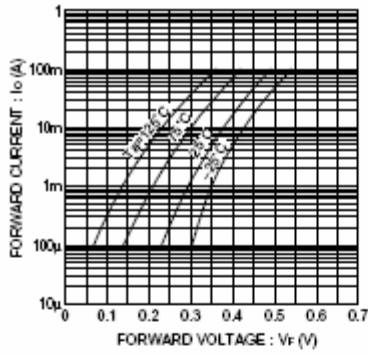


Fig.1 Forward characteristics

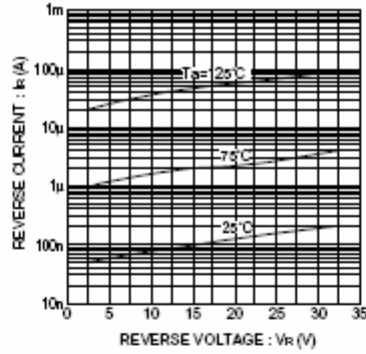


Fig.2 Reverse characteristics

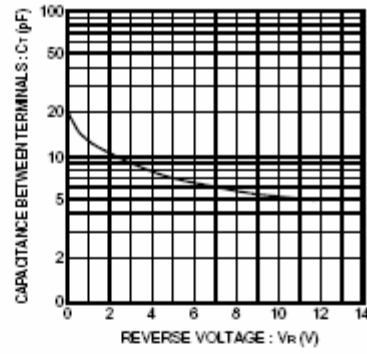


Fig.3 Capacitance between terminals characteristics

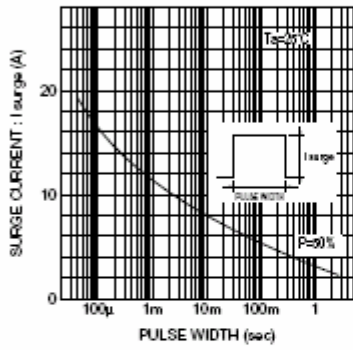


Fig.4 Surge current characteristics

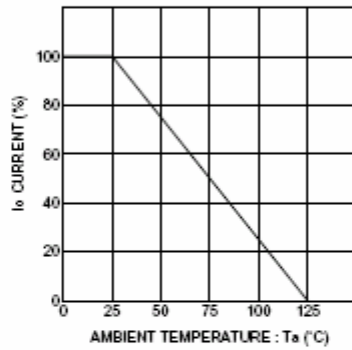


Fig.5 Derating curve (mounting on glass epoxy PCBs)

## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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