



Micro Commercial Components

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**RB420D**

**Features**

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

**0.1 Amp Schottky  
 Barrier Rectifier  
 40 Volts**

**Maximum Ratings**

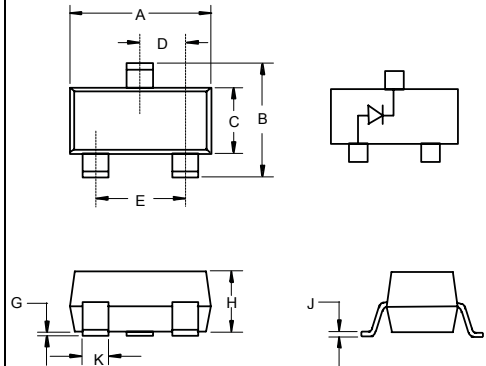
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	40	V
DC Reverse Voltage	$V_R$	40	V
Mean Rectifying Current	$I_O$	100	mA
Peak Forward Surge Current	$I_{FSM}$	1	A
Junction Temperature	$T_J$	125	°C
Storage Temperature	$T_{STG}$	-40 to 125	°C

**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

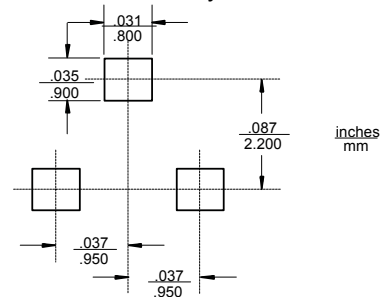
Marking: D3B

**SOT-23-3L**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.113	.117	2.87	2.97	
B	.108	.112	2.75	2.85	
C	.061	.065	1.55	1.65	
D	.036	.038	.925	.975	
E	.073	.077	1.85	1.95	
G	.0016	.0039	.04	.100	
H	.044	.049	1.12	1.25	
J	.006	.007	.14	.17	
K	.013	.015	.34	.37	

**Suggested Solder Pad Layout**





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