

**M·C·C·**

Micro Commercial Components



Micro Commercial Components  
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**RB491DS****Features**

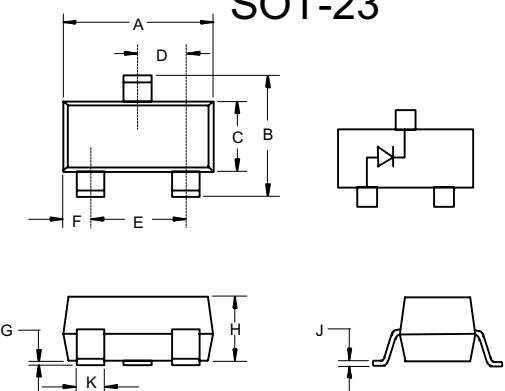
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: D2E
- Halogen free available upon request by adding suffix "-HF"

**Maximum Ratings**

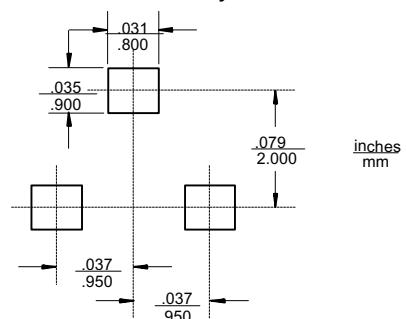
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	25	V
DC Reverse Voltage	$V_R$	20	V
Mean Rectifying Current	$I_O$	1	A
Peak Forward Surge Current	$I_{FSM}$	3	A
Junction Temperature	$T_J$	125	°C
Storage Temperature	$T_{STG}$	-40 to 125	°C

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage @ $I_F=1A$	$V_{F1}$	---	---	0.45	V
Reverse Current @ $V_R=20V$	$I_R$	---	---	200	uA

**1.0 Amp Schottky Barrier Rectifier 20 Volts****SOT-23**

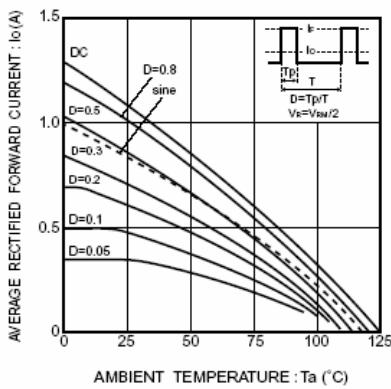
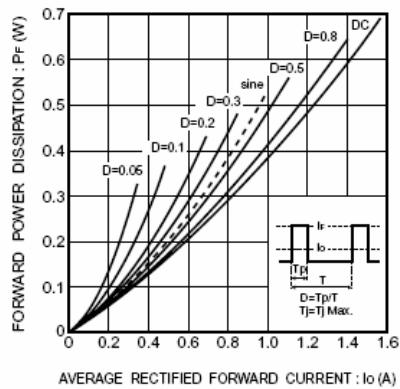
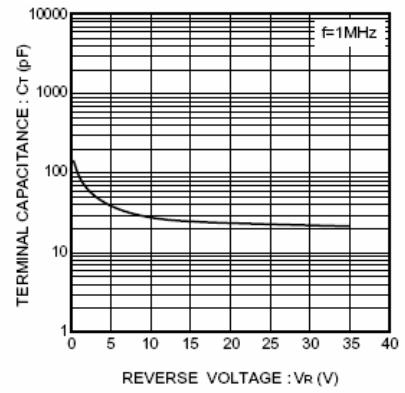
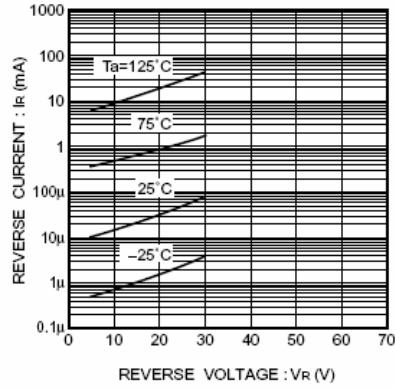
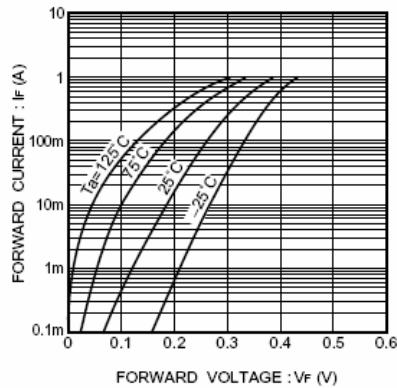
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

**Suggested Solder Pad Layout**

# RB491DS

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## Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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