



# RB491D

## SCHOTTKY BARRIER DIODE

### FEATURES

- Low Current Rectification
- Small mold type
- Low  $I_R$
- High Reliability
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

Case: SOT-23, Plastic

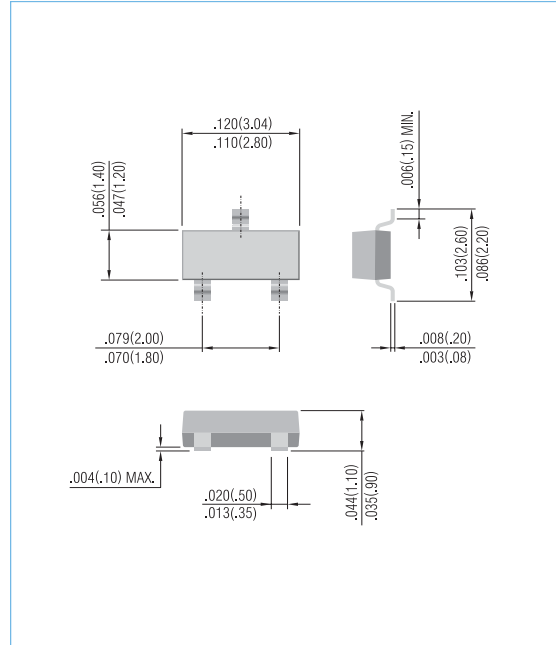
Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.008 gram

Marking Code: 12D

SOT-23

Unit: inch ( mm )



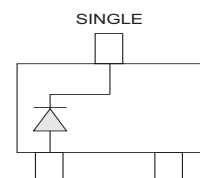
### ABSOLUTE MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ )

Parameter	Symbol	Value	Units
Reverse voltage (reptitive peak)	$V_{RM}$	25	V
Reverse voltage (DC)	$V_R$	20	V
Maximum average rectified forward current (Note 1)	$I_O$	1	A
Forward current surge peak (60Hz · 1cyc)(Note 1)	$I_{FSM}$	3	A
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125	$^{\circ}\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ )

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=1\text{A}$	-	-	0.45	V
Reverse current	$I_R$	$V_R=20\text{V}$	-	-	200	$\mu\text{A}$

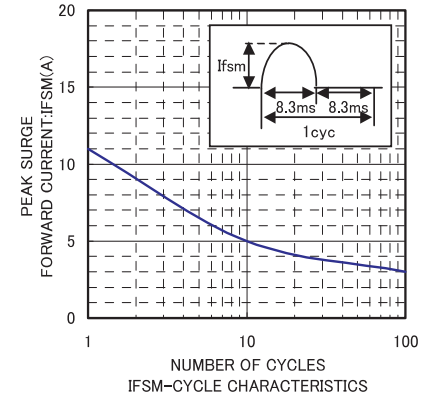
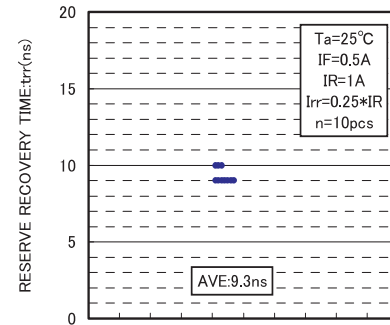
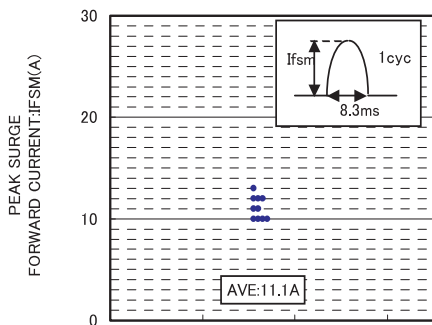
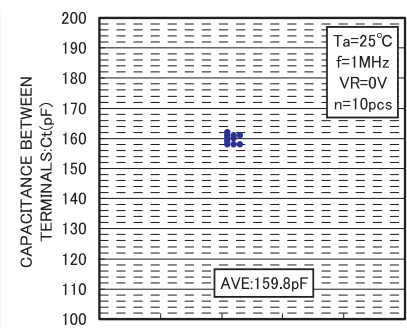
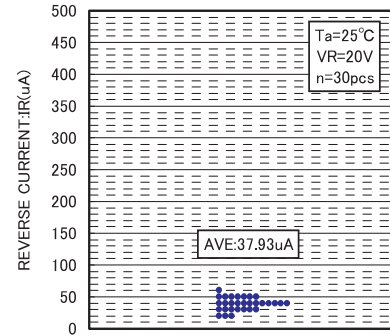
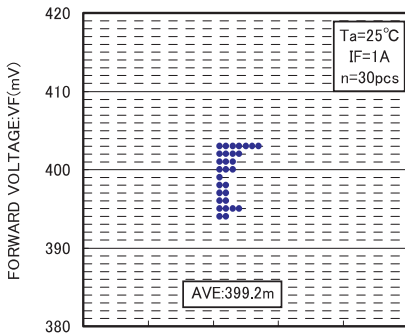
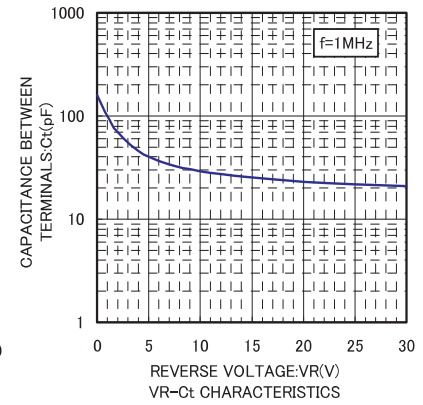
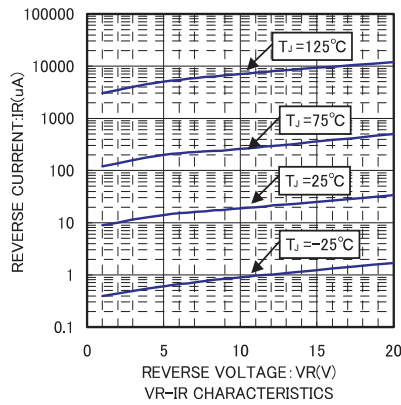
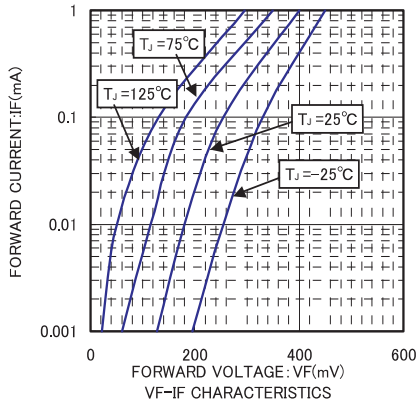
Note : 1.Rating of per diode





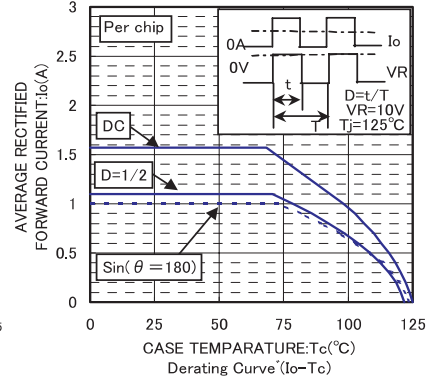
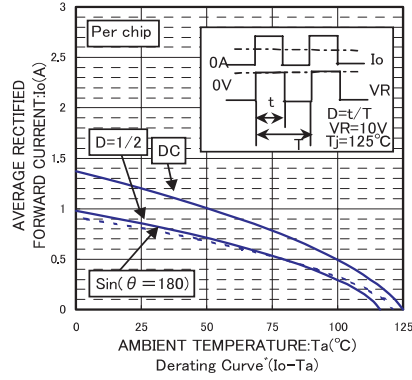
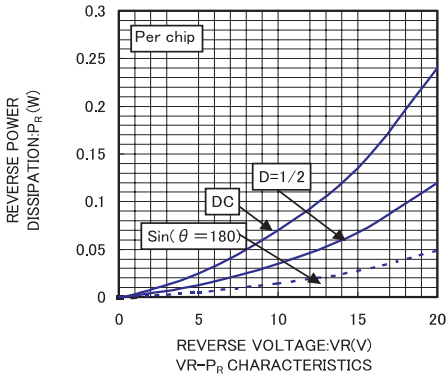
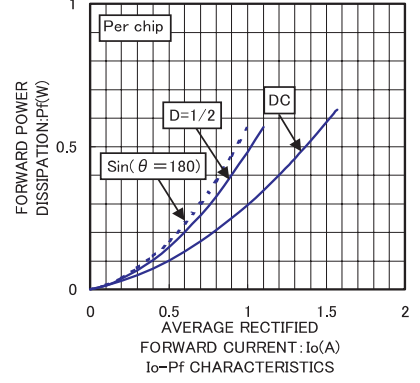
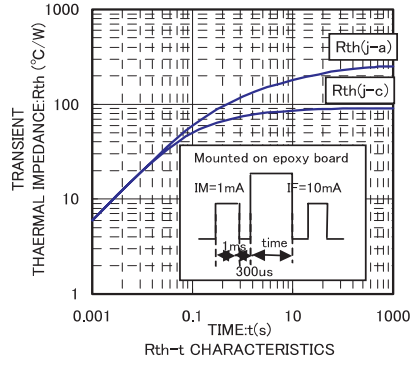
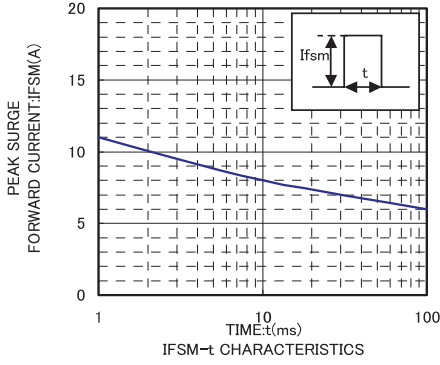
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## ELECTRICAL CHARACTERISTIC CURVES (Ta=25°C)





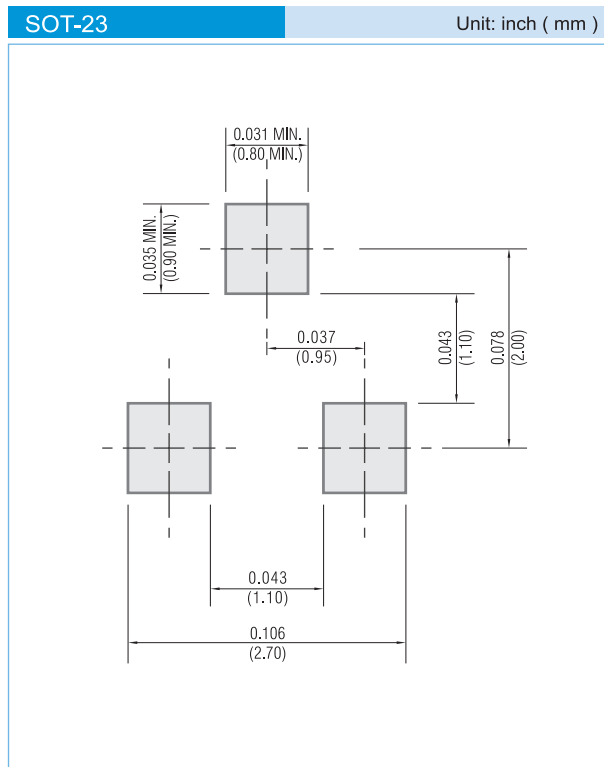
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## MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel

### LEGAL STATEMENT

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