

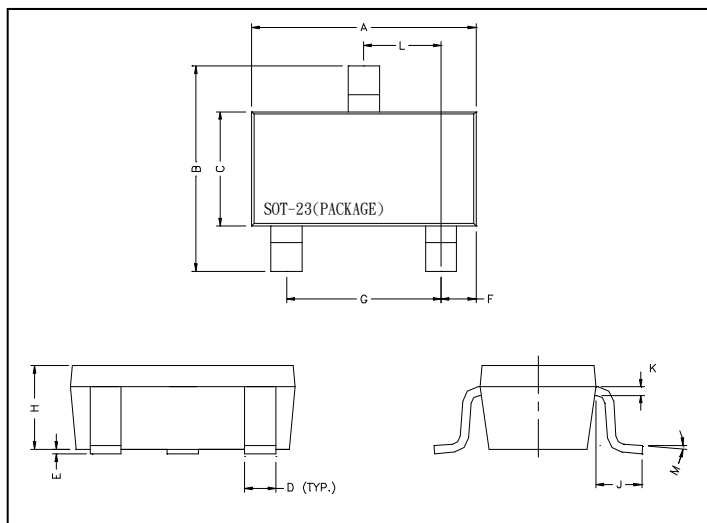
## G491SD

**SURFACE MOUNT, SCHOTTKY BARRIER DIODE**  
**VOLTAGE 25V, CURRENT 1A**

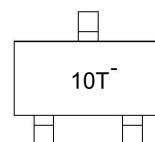
### Description

The G491SD is low power rectification for switching power supply.

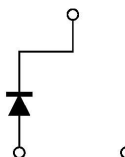
### Package Dimensions



Marking:



Circuit :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°

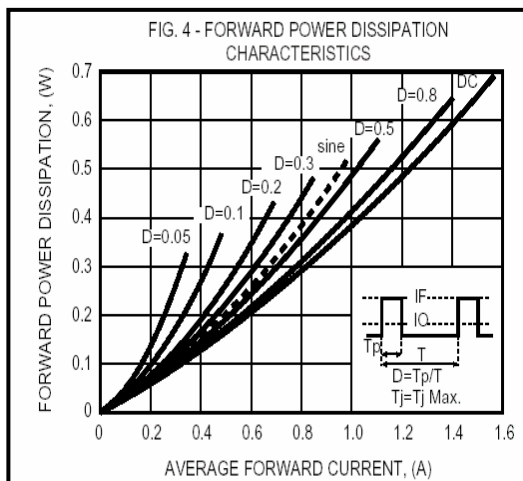
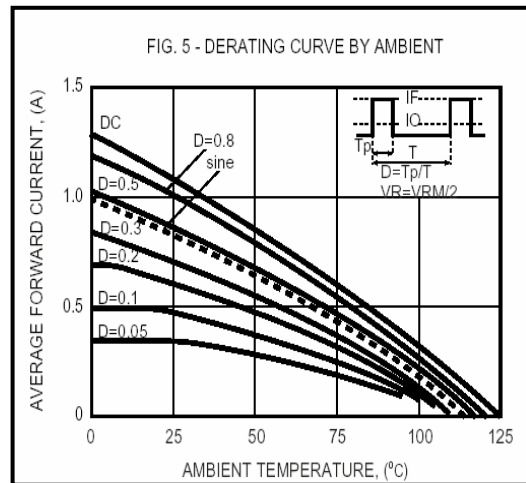
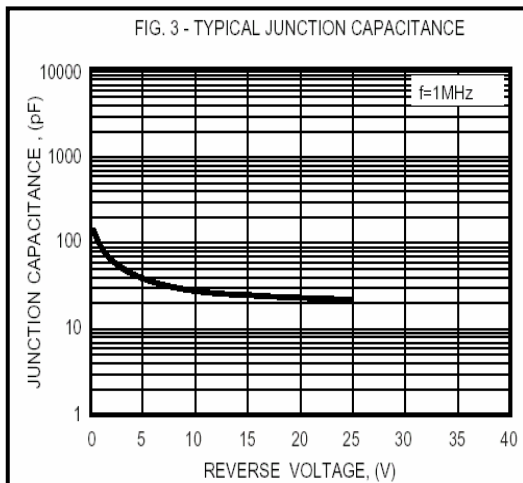
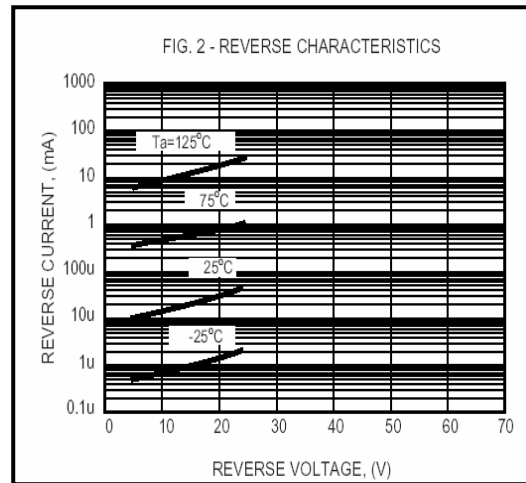
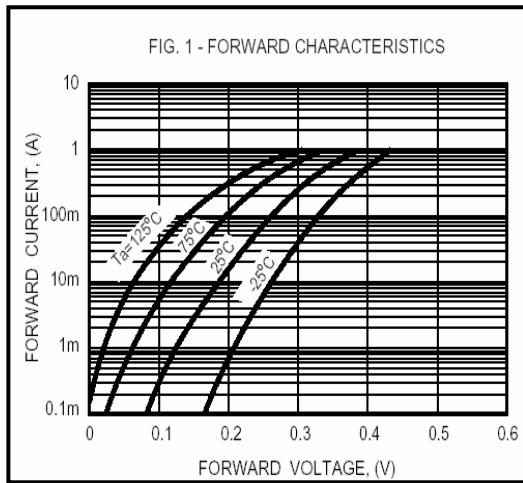
### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	T <sub>j</sub>	+125	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +125	°C
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	25	V
Maximum RMS Voltage	V <sub>RMS</sub>	18	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	V
Peak Forward Surge Current at 8.3mSec single half sine-wave	I <sub>FSM</sub>	3	A
Typical Junction Capacitance between Terminal	C <sub>j</sub>	30	pF
Maximum Average Forward Rectified Current	I <sub>o</sub>	1.0	A
Total Power Dissipation	PD	225	mW

### Characteristics at Ta = 25°C

Characteristics	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	V(BR)R	25	-	V	I <sub>R</sub> = 100uA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	-	0.45	V	I <sub>F</sub> = 1A
Maximum Average Reverse Current	I <sub>R</sub>	-	200	uA	V <sub>R</sub> = 20V

## Characteristics Curve



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