

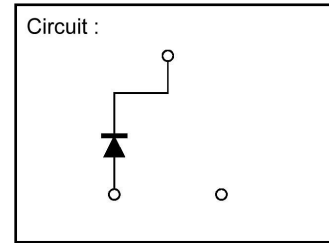
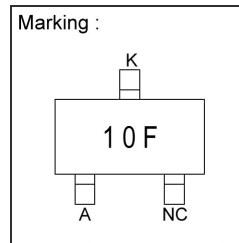
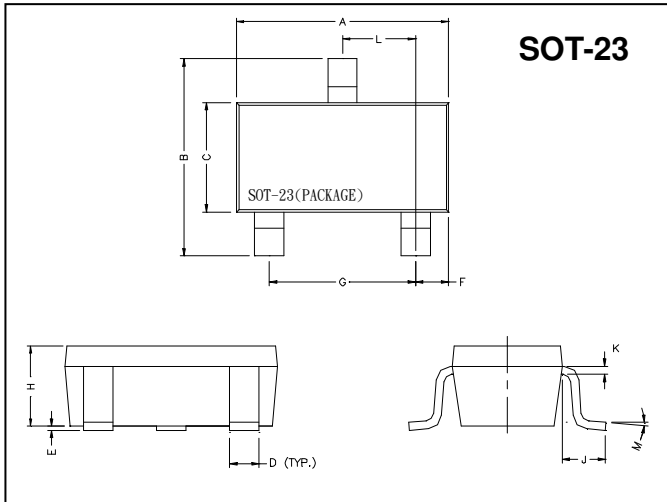
# G490SD

## SURFACE MOUNT, SCHOTTKY BARRIER DIODE VOLTAGE 40V, CURRENT 1A

### Description

The G490SD is low power rectification for switching power supply.

### Package Dimensions



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	Tj	+125	°C
Storage Temperature	Tstg	-55 ~ +150	°C
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	V
Peak Forward Surge Current at 8.3mSec single half sine-wave	I <sub>FSM</sub>	3.0	A
Typical Junction Capacitance between Terminal (Note 1)	C <sub>J</sub>	30	pF
Maximum Average Forward Rectified Current	I <sub>o</sub>	1	A
Total Power Dissipation	PD	225	mW

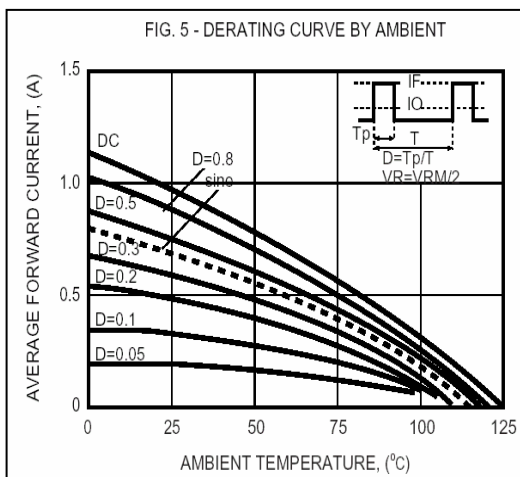
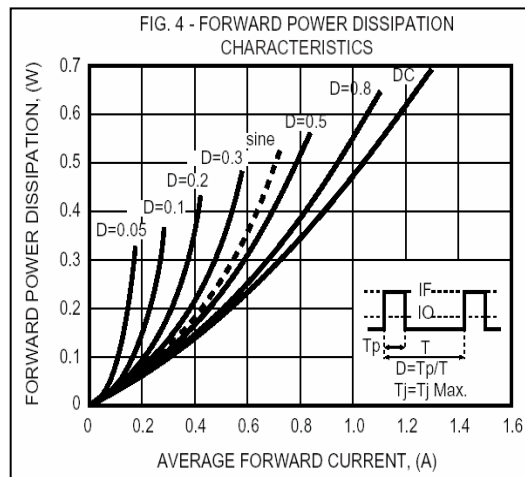
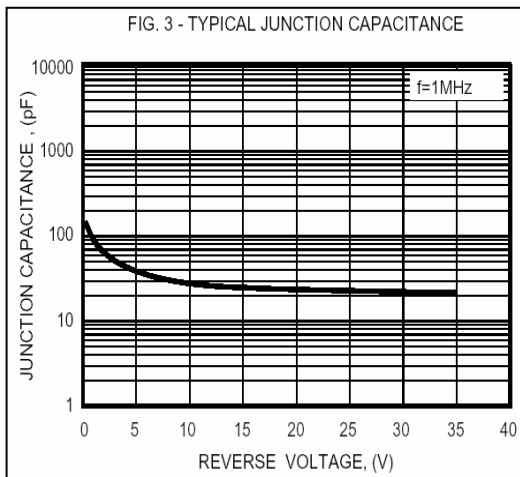
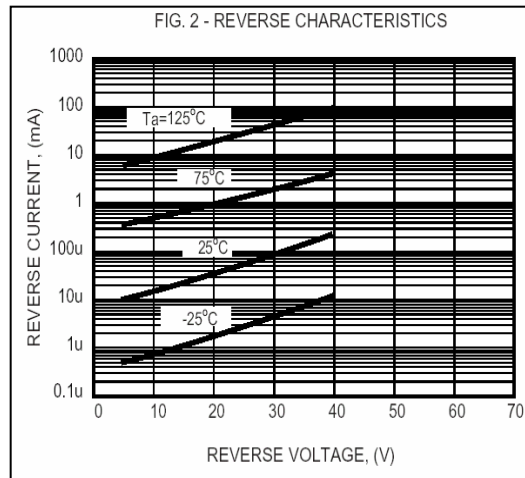
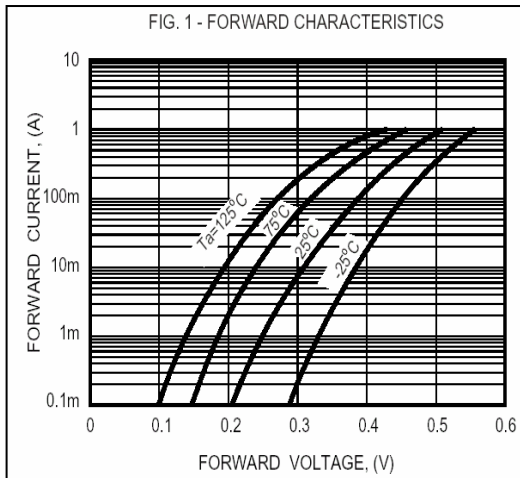
### Electrical Characteristics (at TA = 25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	40	-	-	V	IR=100μA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	-	-	530	mV	IF=1A
Maximum Average Reverse Current	I <sub>R</sub>	-	-	100	μA	VR=30V

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 10 volts.

2. ESD sensitive product handling required.

## Characteristics Curve



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