# GTM CORPORATION ISSUED DATE :2003/07/25 REVISED DATE :2006/05/24B

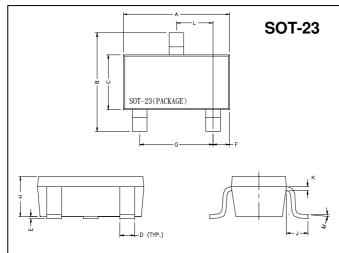
# G490SD

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

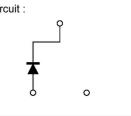
## Description

The G490SD is low power rectification for switching power supply.

# **Package Dimensions**



Marking :	
lina rung i	Circ
к	
10F	
A NC	



REF.	Millimeter		REF.	Millimeter		
⊓∟⊢.	Min.	Max.	ΠLI.	Min.	Max.	
Α	2.70	3.10	G	1.90 REF.		
В	2.40	2.80	Н	1.00	1.30	
С	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	М	0°	10°	

# Absolute Maximum Ratings at TA = 25℃

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)	CJ	30	pF	
Maximum Average Forward Rectified Current	lo	1	A	
Total Power Dissipation	PD	225	mW	

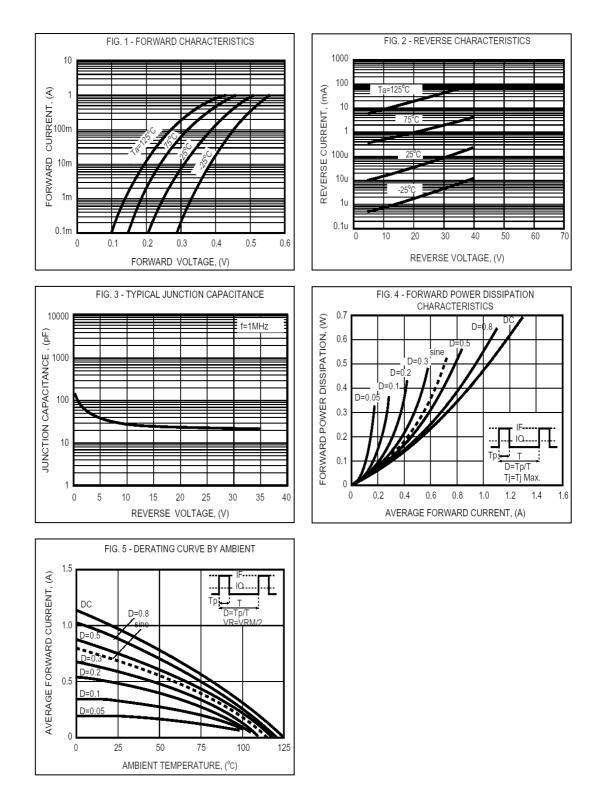
### **Electrical Characteristics** (at TA = $25^{\circ}$ C unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V(BR)R	40	-	-	V	IR=100μA
Maximum Instantaneous Forward Voltage	VF	-	-	530	mV	IF=1A
Maximum Average Reverse Current	IR	-	-	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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