

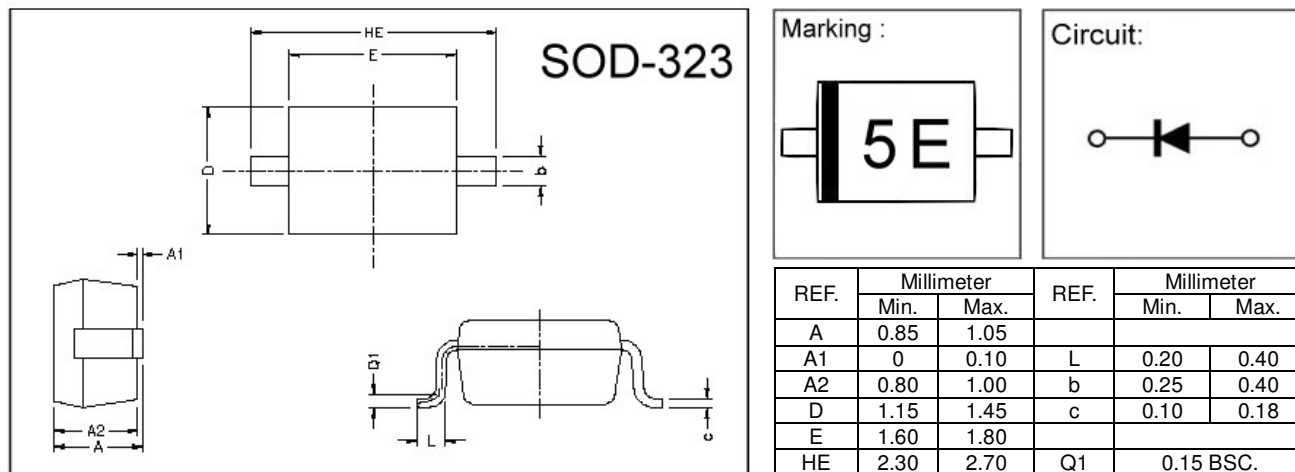
GD491SD

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

Description

The GD491SD is low power rectification for switching power supply.

Package Dimensions



Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Operating Junction Temperature	Tj	-50 ~ +125	°C
Storage Temperature	Tstg	-50 ~ +150	°C
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	25	V
Maximum RMS Voltage	V _{RPS}	18	V
Maximum DC Blocking Voltage	V _{DC}	20	V
Maximum Average Forward Rectified Current	I _o	1	A
Peak Forward Surge Current at 8.3mSec single half sine-wave	I _{FSM}	3.0	A
Typical Junction Capacitance between Terminal (Note 1)	C _J	30	pF
Total Power Dissipation	PD	225	mW

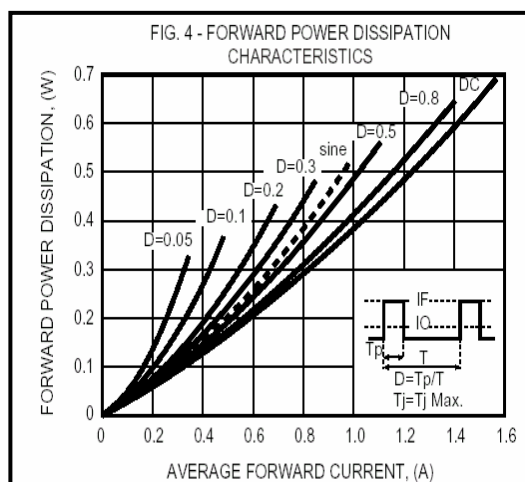
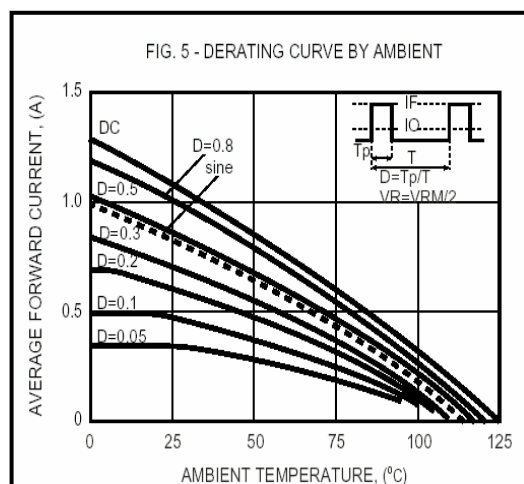
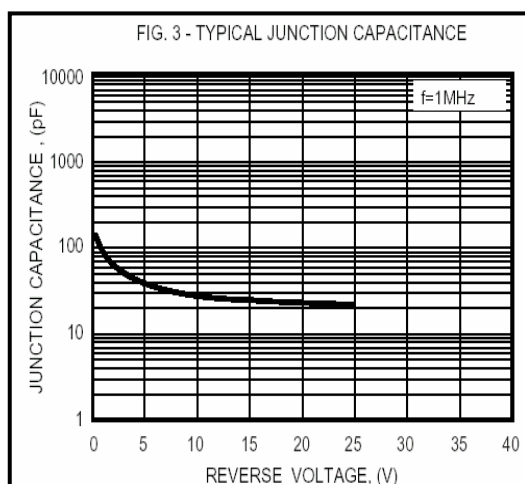
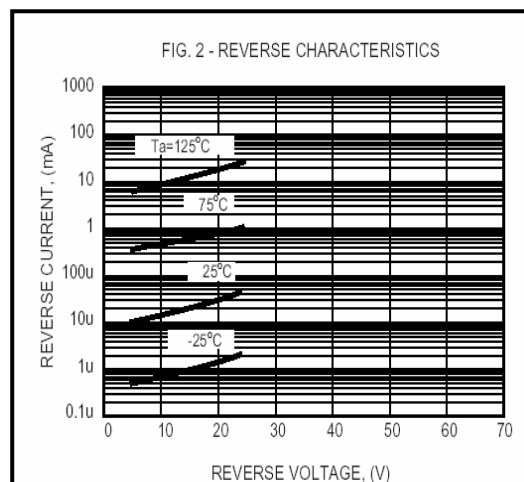
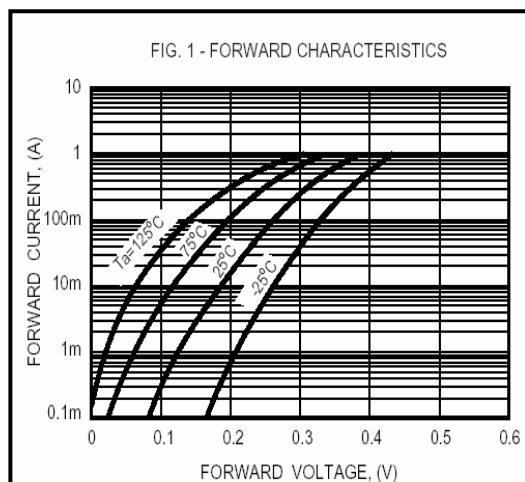
Electrical Characteristics (at TA = 25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V(BR) _R	25	-	V	I _R =100μA
Maximum Instantaneous Forward Voltage	V _F	-	450	mV	I _F =1A
Reverse Leakage Current	I _R	-	200	μA	V _R =20V

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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