

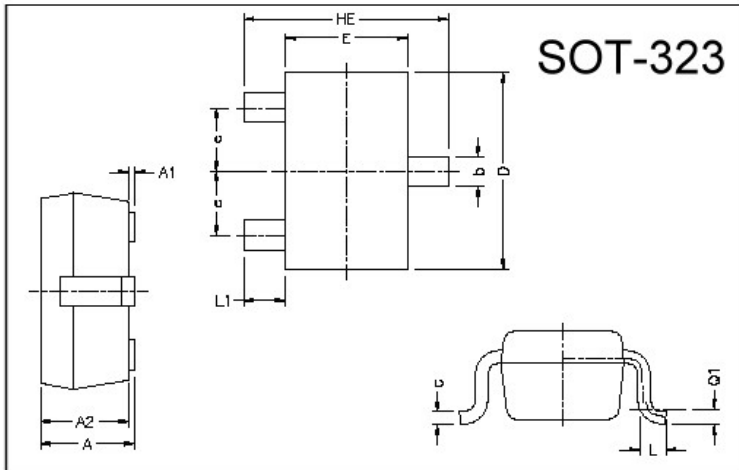
# GS401SD

## SURFACE MOUNT, SCHOTTKY BARRIER DIODE VOLTAGE 30V, CURRENT 0.2A

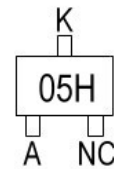
### Description

The GS401SD is high frequency rectification for switching power supply.

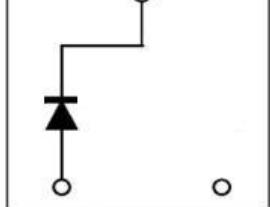
### Package Dimensions



Marking :



Circuit :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.80	1.10	L1	0.42 REF.	
A1	0	0.10	L	0.15	0.35
A2	0.80	1.00	b	0.25	0.40
D	1.80	2.20	c	0.10	0.25
E	1.15	1.35	e	0.65 REF.	
HE	1.80	2.40	Q1	0.15 BSC.	

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

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+125	°C
Storage Temperature	Tstg	-55 ~ +125	°C
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Maximum RMS Voltage	V <sub>RMS</sub>	21	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	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>	40	pF
Maximum Average Forward Rectified Current	I <sub>o</sub>	0.2	A
Total Power Dissipation	PD	225	mW

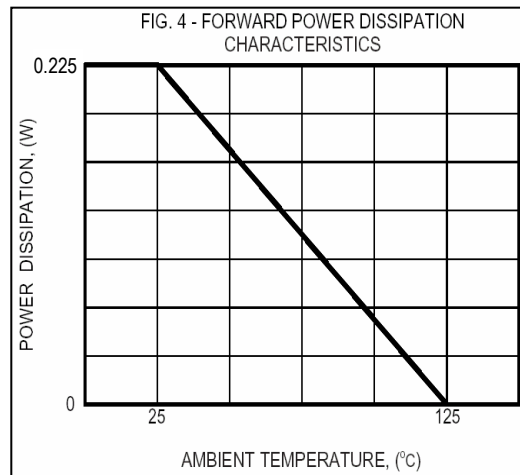
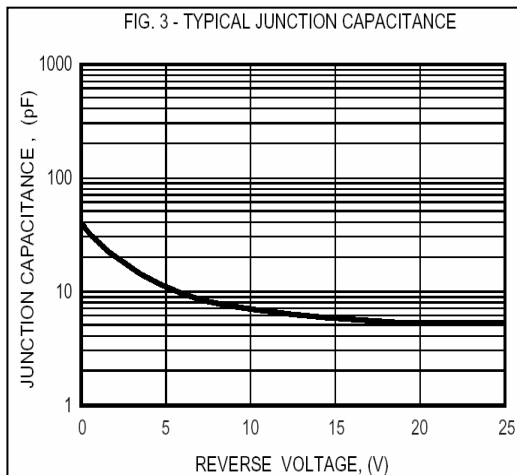
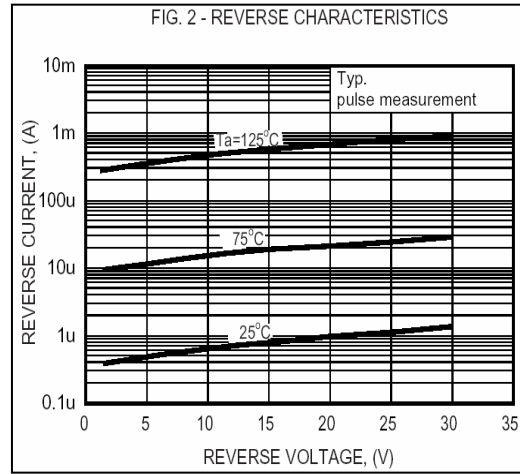
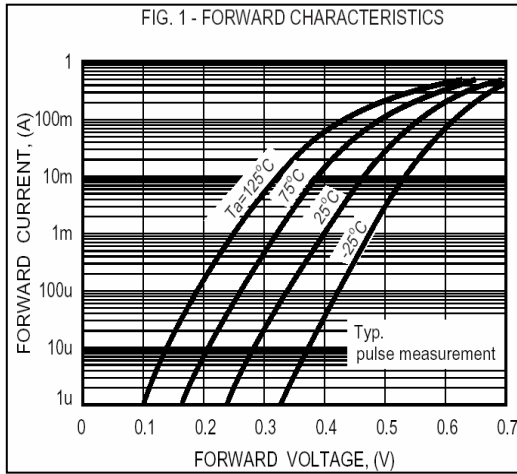
### Electrical Characteristics (at TA = 25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	30	-	-	V	IR=100μA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	-	-	500	mV	IF=200mA
Maximum Average Reverse Current	I <sub>R</sub>	-	-	50	μA	VR1=10V
		-	-	100	μA	VR2=30V

Notes: 1. Measured at 1.0 MHz and 0 reverse bias voltage.

2. ESD sensitive product handling required.

## Characteristics Curve



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