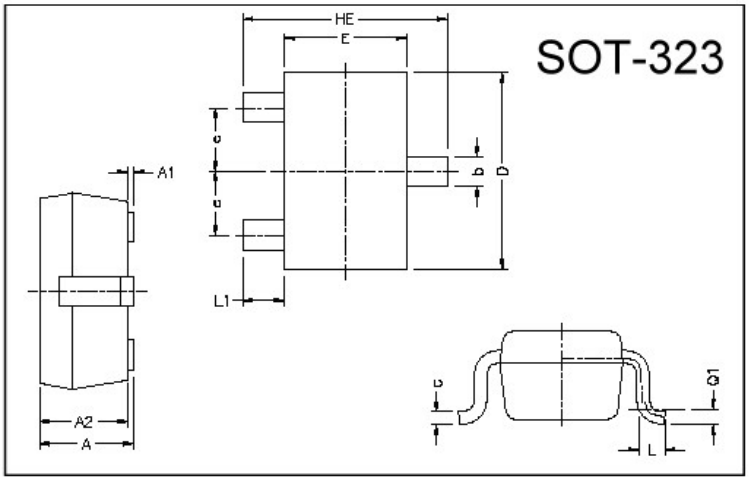
GS401SD

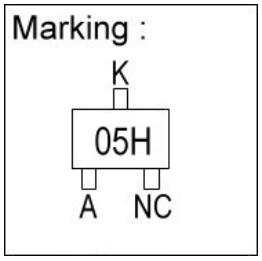
SURFACE MOUNT, SCHOTTKY BARRIER DIODE
VOLTAGE 30V, CURRENT 0.2A

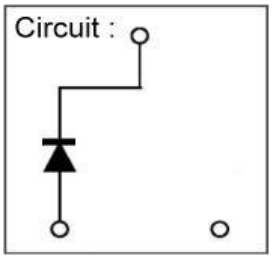
Description

The GS401SD is high frequency rectification for switching power supply.

Package Dimensions







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 T_A = 25℃

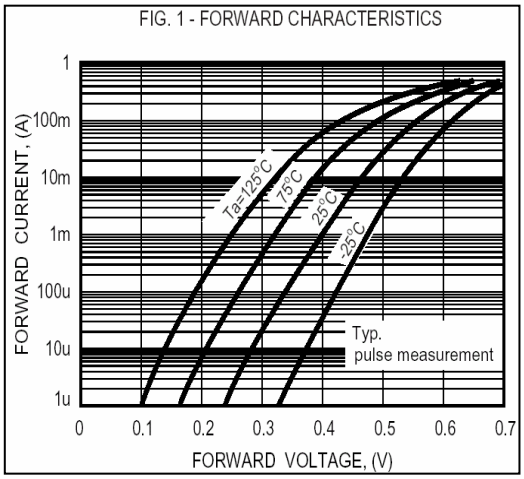
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+125	℃
Storage Temperature	Tstg	-55 ~ +125	℃
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	V
Maximum RMS Voltage	V_{RMS}	21	V
Maximum DC Blocking Voltage	V_{DC}	30	V
Peak Forward Surge Current at 8.3mSec single half sine-wave	I_{FSM}	3.0	A
Typical Junction Capacitance between Terminal (Note 1)	C_J	40	pF
Maximum Average Forward Rectified Current	Io	0.2	A
Total Power Dissipation	PD	225	mW

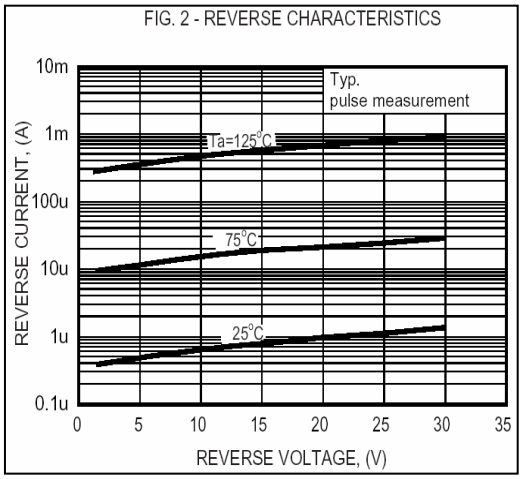
Electrical Characteristics (at T_A = 25℃ unless otherwise noted)

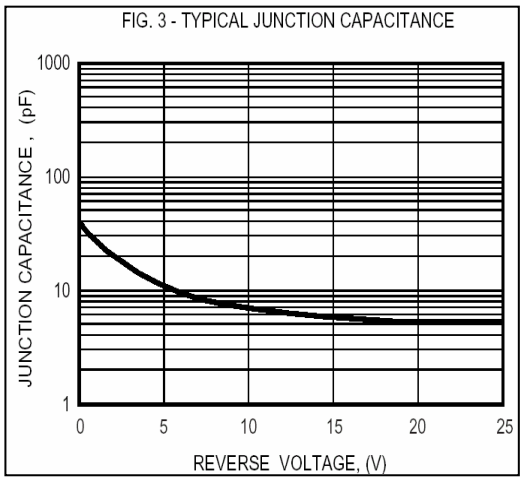
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	30	-	-	V	IR=100μA
Maximum Instantaneous Forward Voltage	V_F	-	-	500	mV	IF=200mA
Maximum Average Reverse Current	I_R	-	-	50	μA	VR1=10V
		-	-	100	μA	VR2=30V

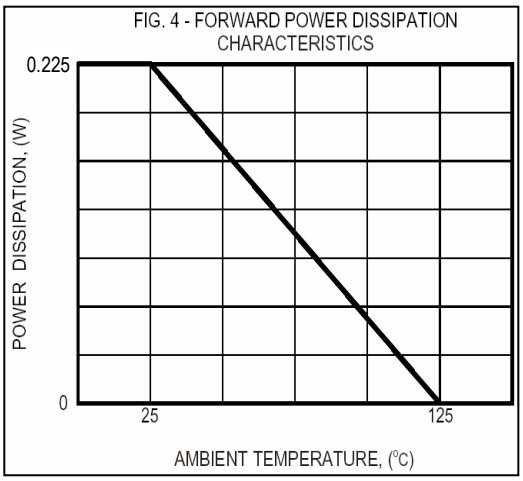
Notes: 1. Measured at 1.0 MHz and 0 reverse bias voltage.
2. ESD sensitive product handling required.

Characteristics Curve









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