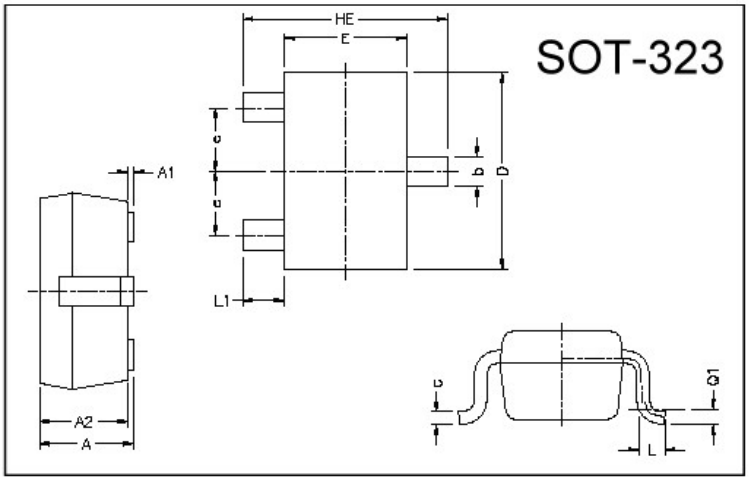
# GS401SD

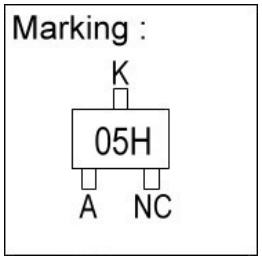
**SURFACE MOUNT, SCHOTTKY BARRIER DIODE**
**VOLTAGE 30V, CURRENT 0.2A**

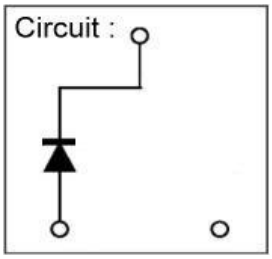
## Description

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℃

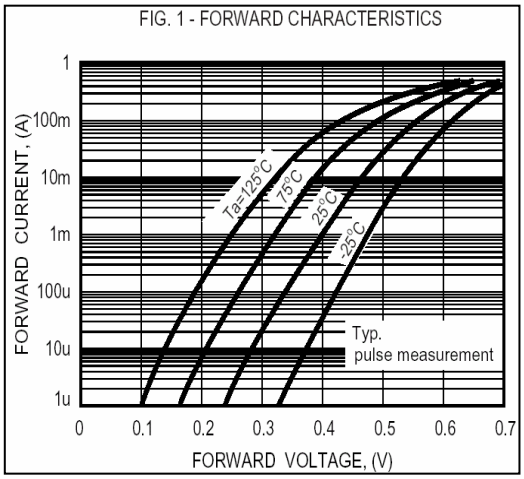
| Parameter | Symbol | Ratings | Unit |
|---|---|---|---|
| Junction Temperature | Tj | +125 | ℃ |
| Storage Temperature | Tstg | -55 ~ +125 | ℃ |
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 30 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 21 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 30 | 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 |

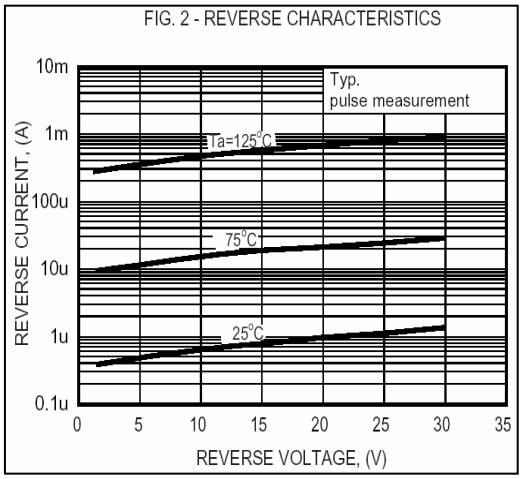
## Electrical Characteristics (at $T_A$ = 25℃ unless otherwise noted)

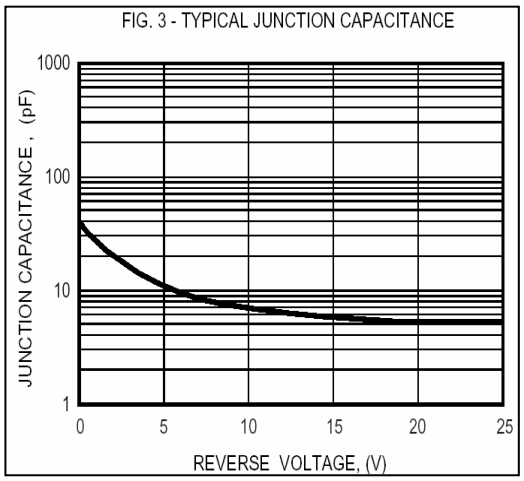
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|---|---|---|---|---|---|---|
| Reverse Breakdown Voltage | $V_{(BR)R}$ | 30 | - | - | V | IR=100μA |
| Maximum Instantaneous Forward Voltage | $V_F$ | - | - | 500 | mV | IF=200mA |
| Maximum Average Reverse Current | $I_R$ | - | -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

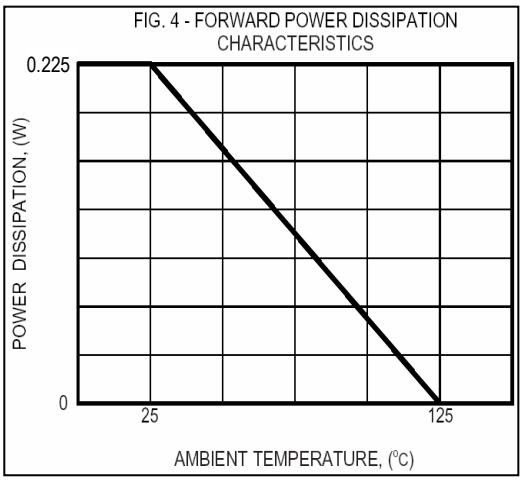
Notes: 1. Measured at 1.0 MHz and 0 reverse bias voltage.
2. ESD sensitive product handling required.

## Characteristics Curve




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