

## GD421SD

**SURFACE MOUNT, SCHOTTKY BARRIER DIODE  
VOLTAGE 40V, CURRENT 0.1A**

### Description

The GD421SD is designed for low power rectification.

### Package Dimensions

**SOD-323**

**Marking :**

**Circuit:**

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.85	1.05			
A1	0	0.10	L	0.20	0.40
A2	0.80	1.00	b	0.25	0.40
D	1.15	1.45	c	0.10	0.18
E	1.60	1.80			
HE	2.30	2.70	Q1	0.15 BSC.	

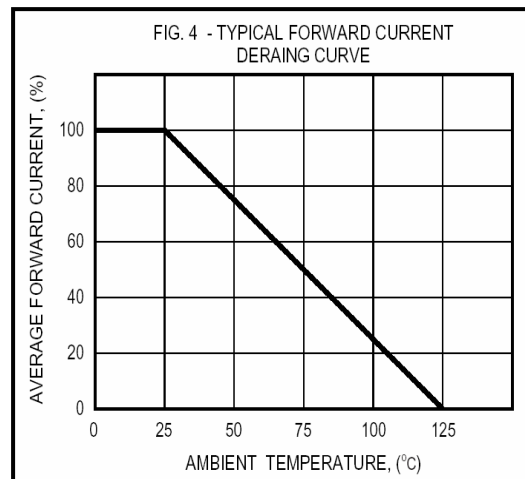
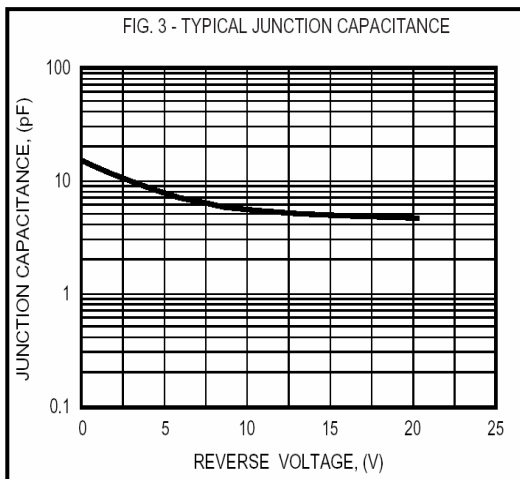
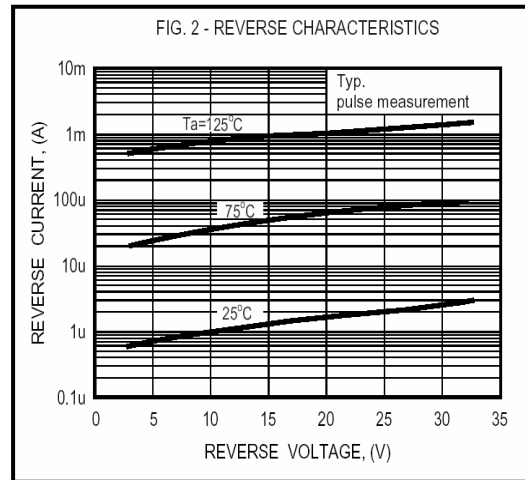
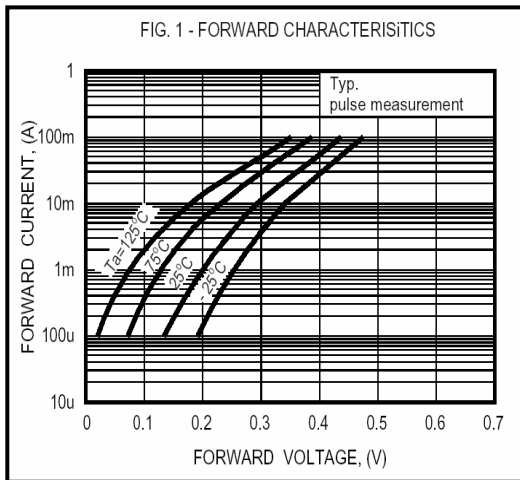
### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	T <sub>j</sub>	+125	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +125	°C
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RPS</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>	1.0	A
Typical Junction Capacitance between Terminal	C <sub>J</sub>	6.0	pF
Maximum Average Forward Rectified Current	I <sub>o</sub>	0.1	A
Total Power Dissipation	PD	225	mW

### Characteristics at Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	40	-	-	V	I <sub>R</sub> =50μA
Forward Voltage	V <sub>F(1)</sub>	-	-	340	mV	I <sub>F</sub> =10mA
	V <sub>F(2)</sub>	-	-	550	mV	I <sub>F</sub> =100mA
Reverse Leakage Current	I <sub>R</sub>	-	-	30	μA	V <sub>R</sub> =10V

## Characteristics Curve



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