

## GD103SD

**SURFACE MOUNT, SCHOTTKY BARRIER DIODE**  
**VOLTAGE 40V, CURRENT 350mA**

### Description

The GD103SD is designed for low forward voltage drop, guard ring construction for transient protection, negligible reverse recovery time and low reverse capacitance.

### 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.	

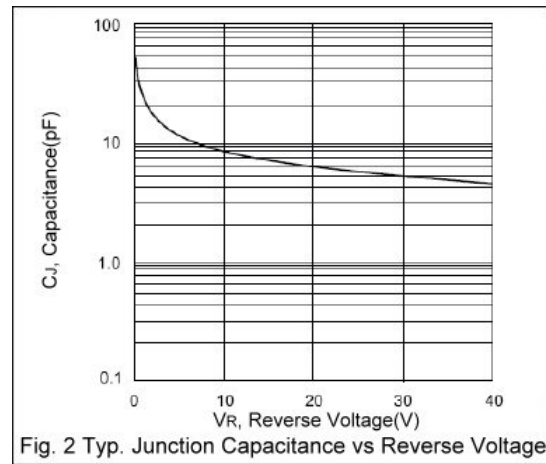
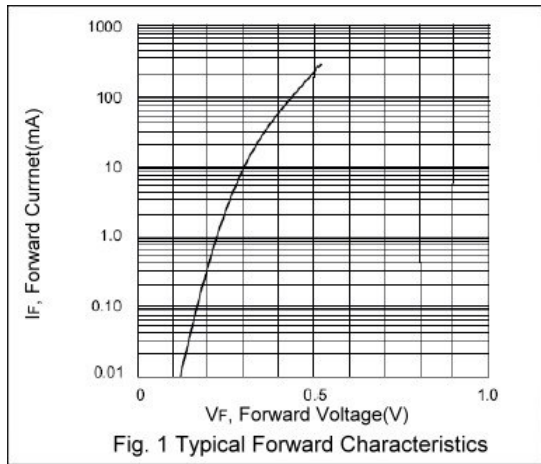
### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Storage Temperature	Tstg	-65 ~ +125	°C
Peak Repetitive Reverse Voltage	VR	40	V
RMS Reverse Voltage	VR(RMS)	28	V
Forward Continuous Current	IF	350	mA
Repetitive Peak Forward Current(t ≤ 1.0s)	IFRM	1.5	A
Thermal Resistance Junction to Ambient	RθJA	625	°C/W
Total Power Dissipation at Ta = 25°C	PD	225	mW

### Characteristics at Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V(BR)R	40	-	-	V	IR=10μA
Forward Voltage	VF(1)	-	-	370	mV	IF=20mA
	VF(2)	-	-	600	mV	IF=200mA
Reverse Leakage Current	IR	-	-	5.0	μA	VR=30V
Total Capacitance	CT	-	5.0	-	pF	VR=0V, f=1MHz
Reverse Recover Time	Trr	-	10	-	ns	IF=IR=200mA, IR(Rec)=20mA, RL=100Ω

## Characteristics Curve



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