GD511

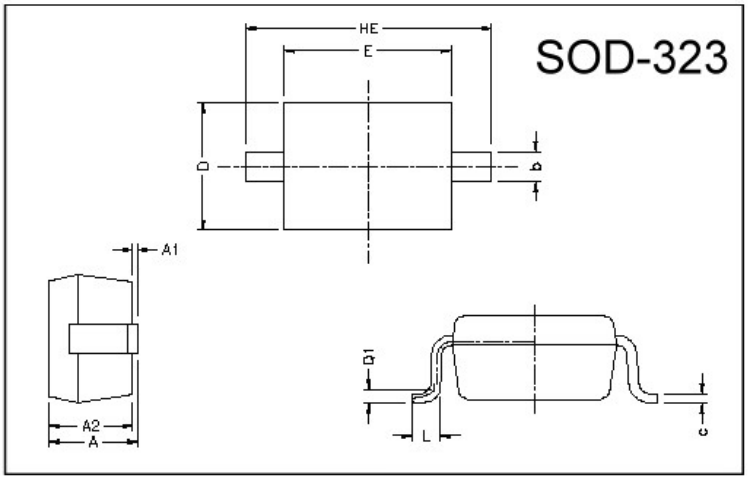
SURFACE MOUNT, SWITCHING DIODE

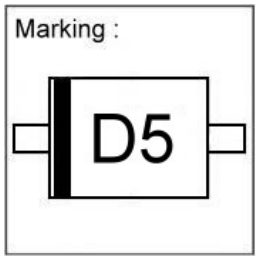
VOLTAGE 85V, CURRENT 0.1A

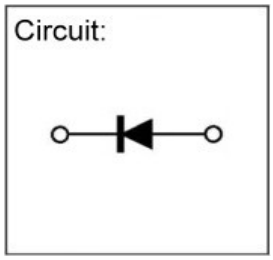
Description

The GD511 is designed for ultra high speed switching application, low forward voltage and fast reverse recovery time.

Package Dimensions







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.	

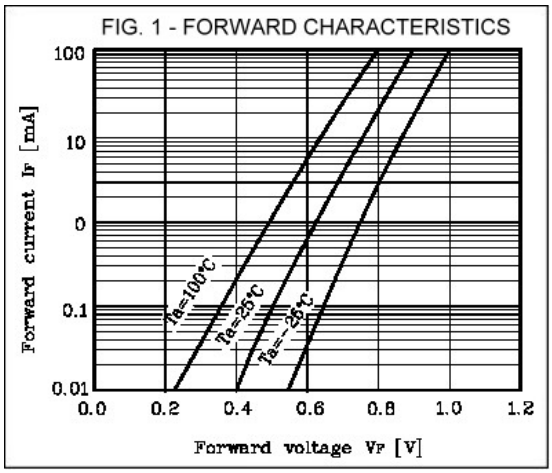
Absolute Maximum Ratings at Ta = 25℃

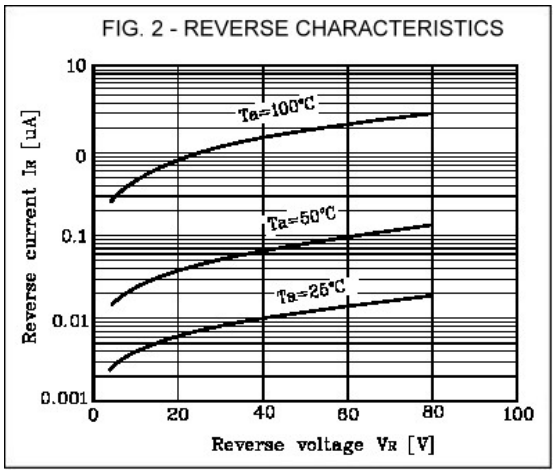
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	℃
Storage Temperature	Tstg	-55 ~ +150	℃
Maximum Peak Reverse Voltage	V_{RM}	85	V
Maximum Reverse Voltage	V_R	80	V
Maximum (Peak) Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Surge Current(10ms)	I_{FSM}	2	A
Total Power Dissipation	P_D	150	mW

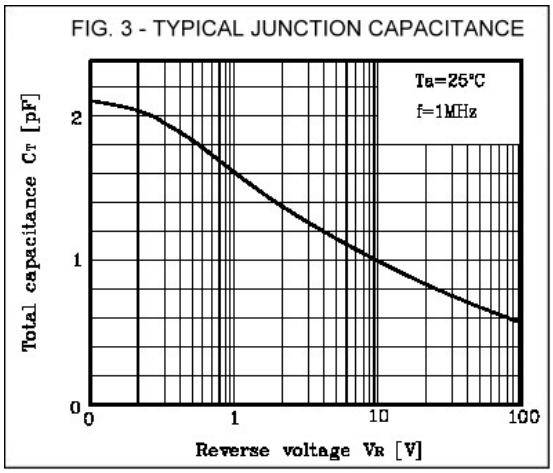
Electrical Characteristics at Ta = 25℃

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	$V_F(1)$	-	0.6	-	V	I_F=1mA
	$V_F(2)$	-	0.7	-	V	I_F=10mA
	$V_F(3)$	-	0.9	1.2	V	I_F=100mA
Reverse Current	I_R	-	-	0.5	μA	V_R=80V
Total Capacitance	C_T	-	2.2	4.0	pF	V_R=0, f=1MHz
Reverse Recovery Time	Trr	-	1.6	4.0	nS	I_F=10mA

Characteristics Curve







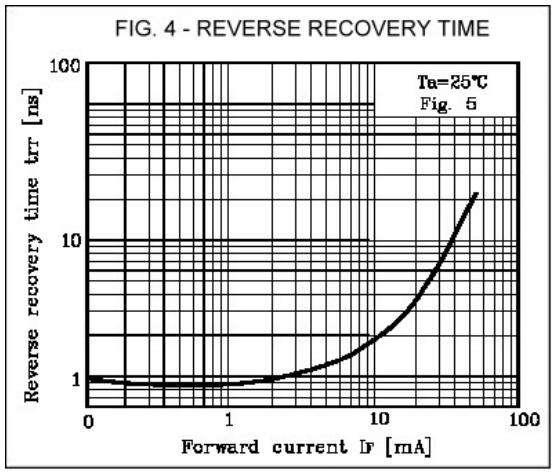
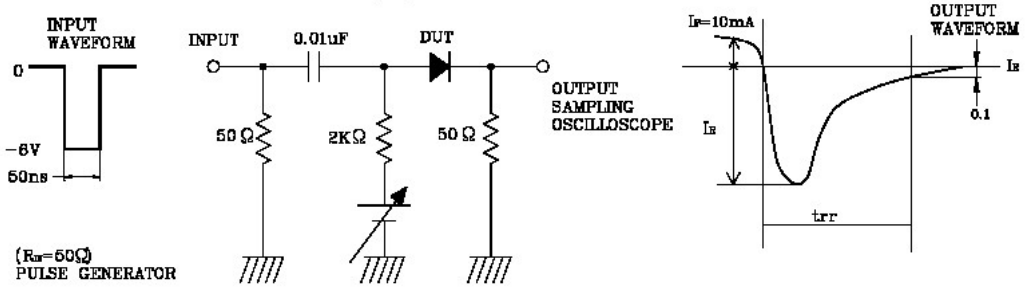


FIG. 5 - REVERSE RECOVERY TIME(trr) TEST CIRCUIT



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