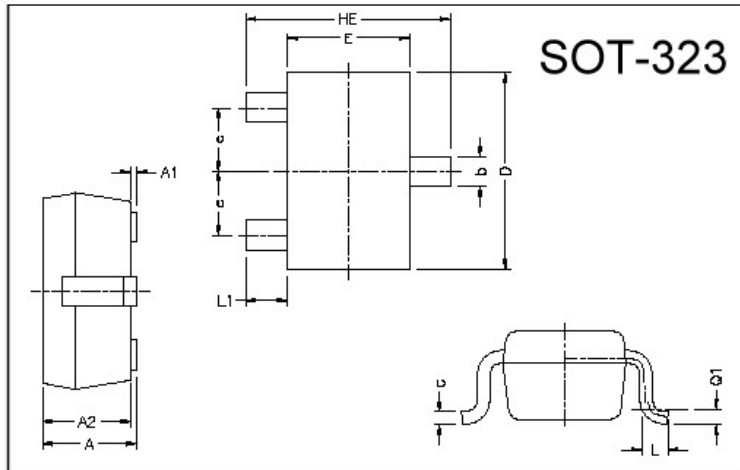
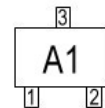
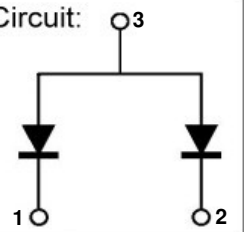


GSBAW56**SURFACE MOUNT, SWITCHING DIODE****Description**

The GSBAW56 consists of two high-speed switching diodes with common anodes, fabricated in planar technology, and encapsulated in a small SOT-323 plastic SMD package.

Package Dimensions**Marking :****Circuit:**

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 TA = 25°C

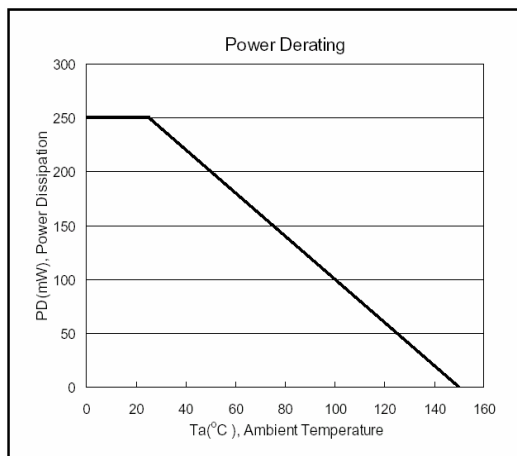
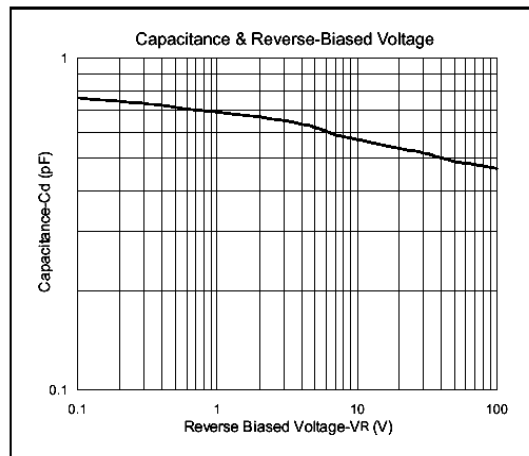
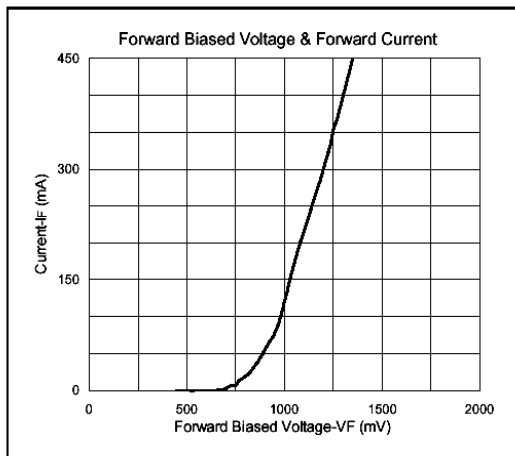
Parameter		Symbol	Ratings	Unit
Junction Temperature		T _j	+125	°C
Storage Temperature		T _{stg}	-65 ~ +150	°C
Repetitive Peak Reverse Voltage		V _{RRM}	85	V
Continuous Reverse Voltage		V _R	75	V
Continuous Forward Current	single diode loaded (note1)	I _F	150	mA
	double diode loaded (note1)		130	
Repetitive Peak Forward Current		I _{FRM}	500	mA
Non-Repetitive Peak Forward Current (1ms)		I _{FSM}	1	A
Total Power Dissipation		P _D	250	mW

Notes: 1. Device mounted on an FR4 printed-circuit board.

Electrical Characteristics (at TA = 25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Voltage	V _R	85	-	V	I _R =100uA
Forward Voltage	V _F (1)	-	715	mV	I _F =1mA
	V _F (2)	-	855	mV	I _F =10mA
	V _F (3)	-	1000	mV	I _F =50mA
	V _F (4)	-	1250	mV	I _F =150mA
Reverse Current	I _R	-	1	uA	V _R =80V
Diode Capacitance	C _D		2	pF	V _R =0, f=1MHz
Reverse Recovery Time	T _{rr}	-	4	nS	I _F =I _R =10mA, R _L =100Ω measured at I _R =1mA

Characteristics Curve

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