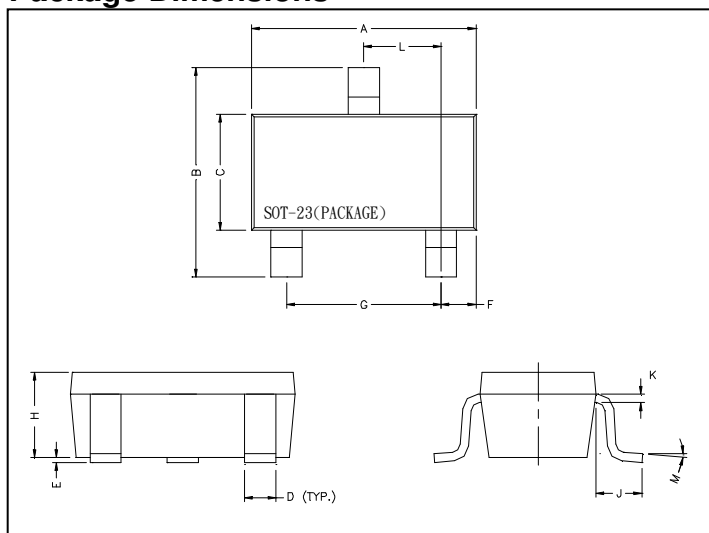


GBAW56**SURFACE MOUNT, SWITCHING DIODE****Description**

The GBAW56 consists of two high-speed switching diodes with common anodes, fabricated in planar technology, and encapsulated in a small SOT-23 plastic SMD package.

Package Dimensions

Marking:

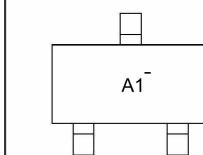
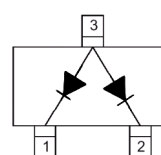


Diagram :

**Style: Pin 1.Cathode 2.Cathode 3. Common Anode**

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°

Absolute Maximum Ratings at TA = 25°C

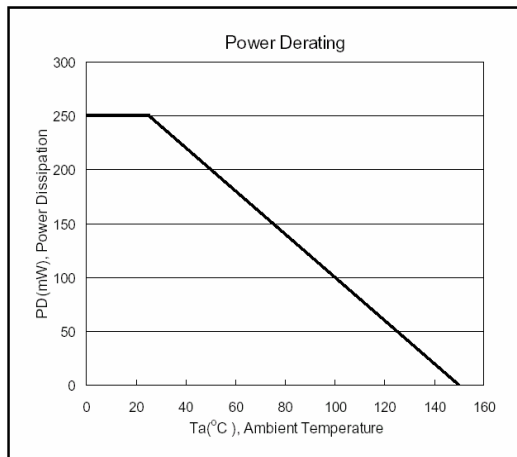
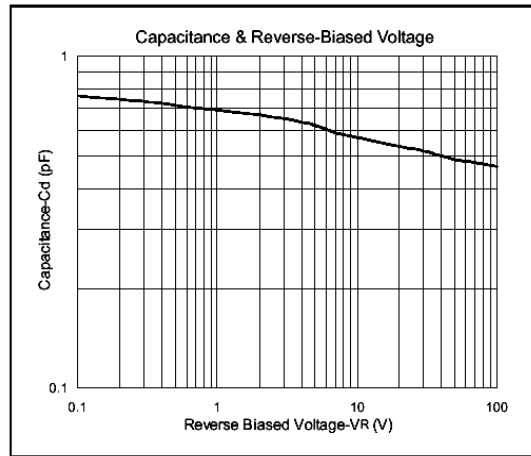
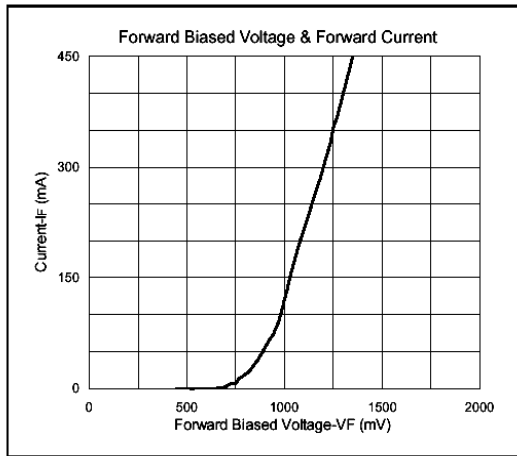
Parameter	Symbol	Ratings	Unit
Junction Temperature	T _j	+125	°C
Storage Temperature	T _{stg}	-65 ~ +150	°C
Repetitive Peak Reverse Voltage	V _{RRM}	85	V
Continuous Reverse Voltage	V _R	75	V
Continuous Forward Current	single diode loaded (note1)	150	mA
	double diode loaded (note1)	130	
Repetitive Peak 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 =100μA
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	μA	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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