

GSDBAS21JZF

Switching Diode

Product Description

Switching Diode 250V and 200mA

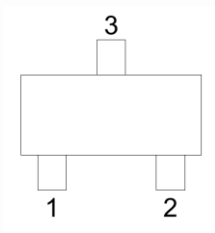
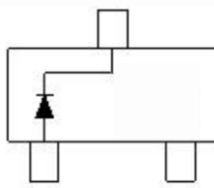
Features

- Fast Switching Speed.
- Low Reverse Leakage Current

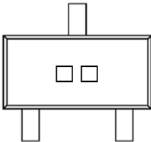
Mechanical Data

- SOT-23 Package
- RoHS Compliant and Halogen Free

Package & Pin Assignment

SOT-23			Equivalent Circuit		
					
Pin	Symbol	Description	Pin	Symbol	Description
1	A	Anode	3	K	Cathode
2	N.C.	Not Connected			

Ordering and Marking Information

Ordering Information			
Part Number	Package	Marking Code	Quantity / Reel
GSDBAS21JZF	SOT-23	JS	3,000 PCS
GSDBAS21 1 2 F - Product Code: GSDBAS21 - Circuit Type Code: 1 is Blank for this Type - Package Code: 2 JZ for SOT-23 - Green Level: - F for RoHS Compliant and Halogen Free			
Marking Information			
	- Product Code: □□ is JS		

Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

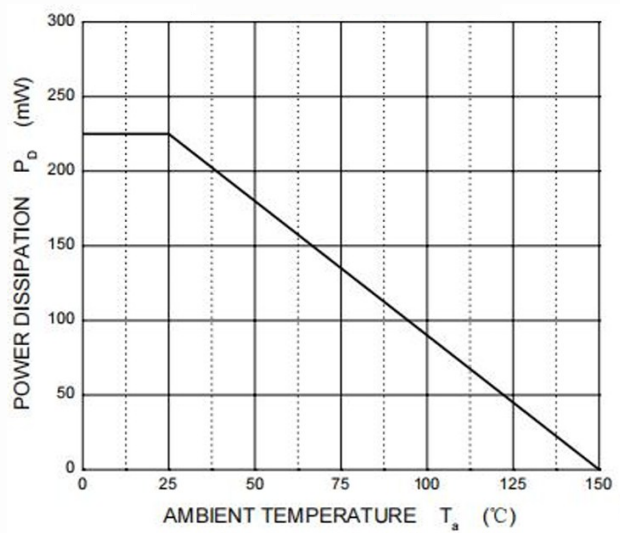
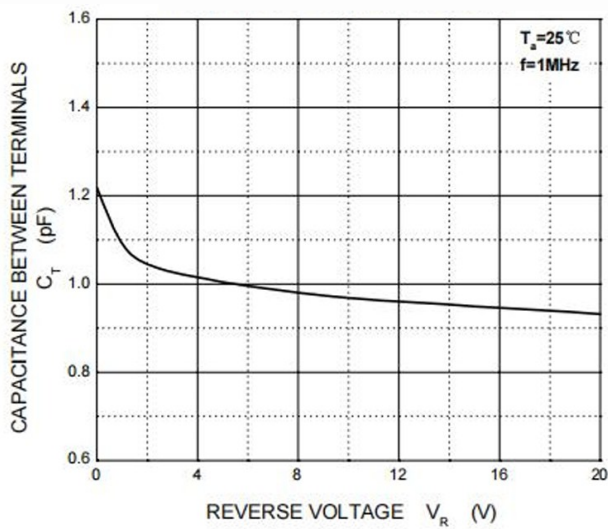
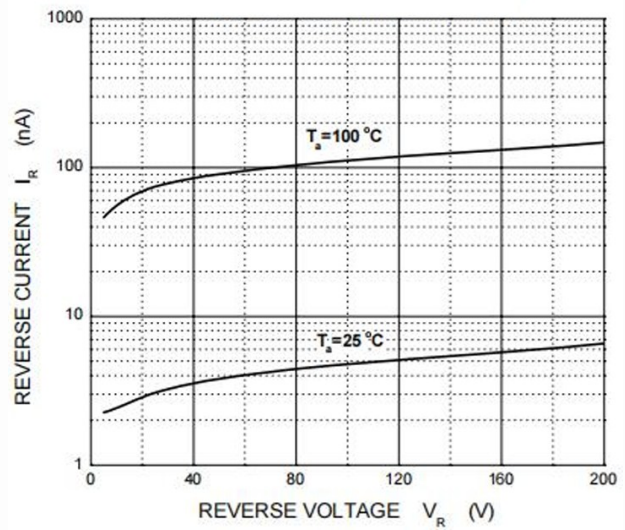
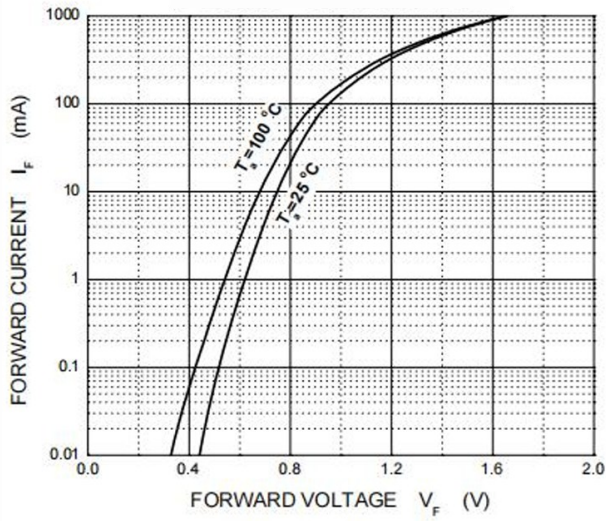
Symbol	Parameter		Value	Units
V _{RRM}	Repetitive Peak Reverse Voltage		250	V
V _{RM}	Non-Repetitive Peak Reverse Voltage		250	V
I _F	Forward Continuous Current		200	mA
I _{FRM}	Repetitive Peak Forward Current		625	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current	t=10ms	1.7	A
P _D	Power Dissipation		225	mW
R _{ΘJA}	Thermal Resistance from Junction to Ambient		555	°C/W
T _J	Junction Temperature		150	°C
T _{STG}	Storage Temperature		-55 to +150	°C

These ratings are limiting Values above which the serviceability of the diode may be impaired.

Electrical Characteristics (T_A=25°C unless otherwise specified)

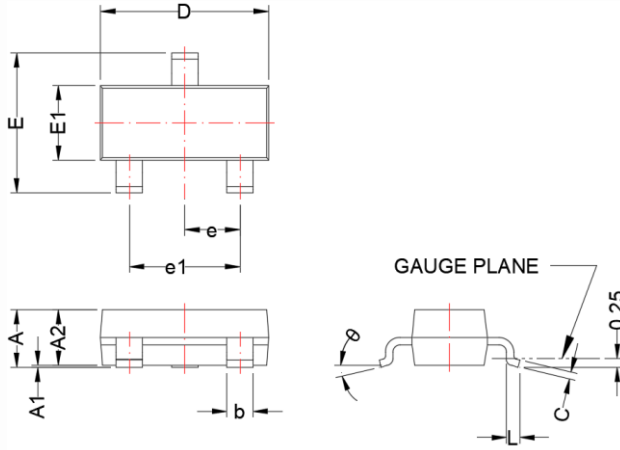
Symbol	Parameter	Test Condition	Min	Max	Units
V _F	Forward Voltage	I _F =100mA		1	V
		I _F =200mA		1.25	V
V _R	Reverse Breakdown Voltage	I _R =100uA	250		V
I _R	Reverse Current	V _R = 200V		100	nA
C _T	Capacitance	V _R = 0V, f = 1MHz		5	pF
t _{rr}	Reverse Recovery Time	I _F = I _R =30mA, I _{RR} = 0.1x I _R R _L = 100Ω		50	ns

Typical Characteristics

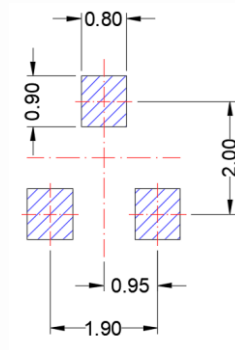


SOT-23

Package Dimension



Recommended Land Pattern



Unit:mm

Dimensions				
Symbol	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	0.75	1.17	0.030	0.046
A1	0.00	0.15	0.000	0.006
A2	0.70	1.05	0.028	0.041
b	0.30	0.50	0.012	0.020
c	0.08	0.20	0.003	0.008
D	2.80	3.04	0.110	0.120
E	2.10	2.65	0.083	0.104
E1	1.15	1.50	0.045	0.059
e	0.95 BSC		0.037 BSC	
e1	1.90 BSC		0.075 BSC	
L	0.30	0.60	0.012	0.024
θ	0°	8°	0°	8°

NOTE:

Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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