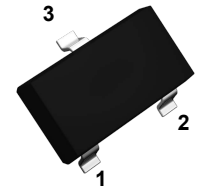


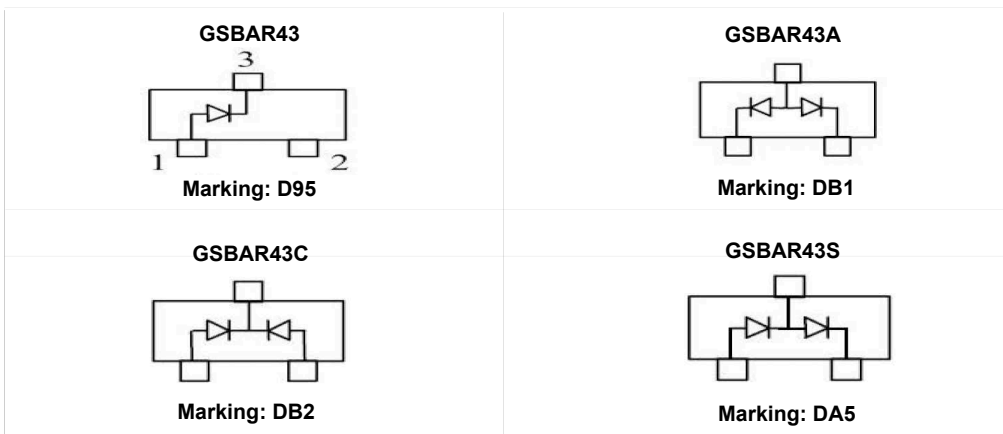
Features

- High conductance
- Low current leakage
- Small outline surface mount package
- RoHS compliant / Green EMC



SOT-23

Schematic Diagram



Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Continuous Current	I_F	200	mA
Power Dissipation	P_{tot}	200	mW
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	0.75	A
Operating Junction Temperature Range	T_J	-55 To +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 To +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse Breakdown Voltage	V_R	$I_R=100\mu\text{A}$	30	-	V
Forward Voltage	V_F	$I_F=2\text{mA}$	-	0.33	V
		$I_F=15\text{mA}$	-	0.45	V
		$I_F=100\text{mA}$	-	0.8	V
Reverse Voltage Leakage Current	I_R	$V_R=25\text{V}$	-	0.5	μA
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$, $R_L = 100\Omega$ $I_{RR}=1\text{mA}$	-	5	nS

Typical Characteristic Curves

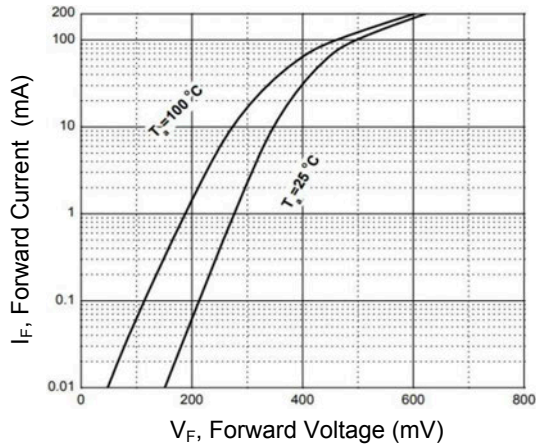


Figure 1. Forward Characteristics

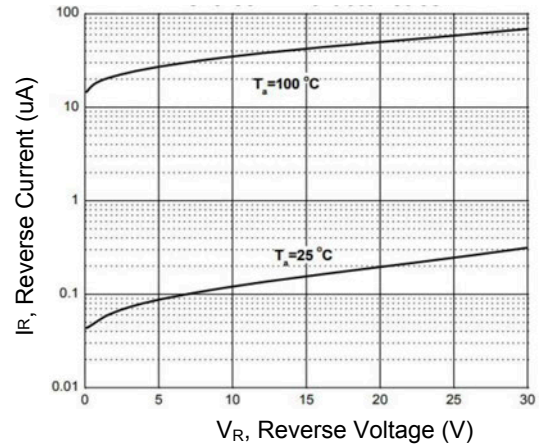


Figure 2. Reverse Characteristics

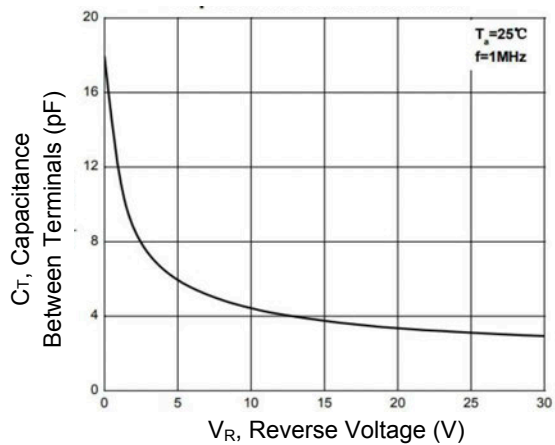


Figure 3. Capacitance Characteristics

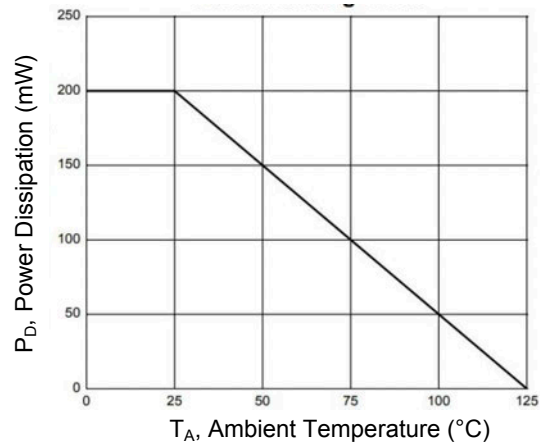
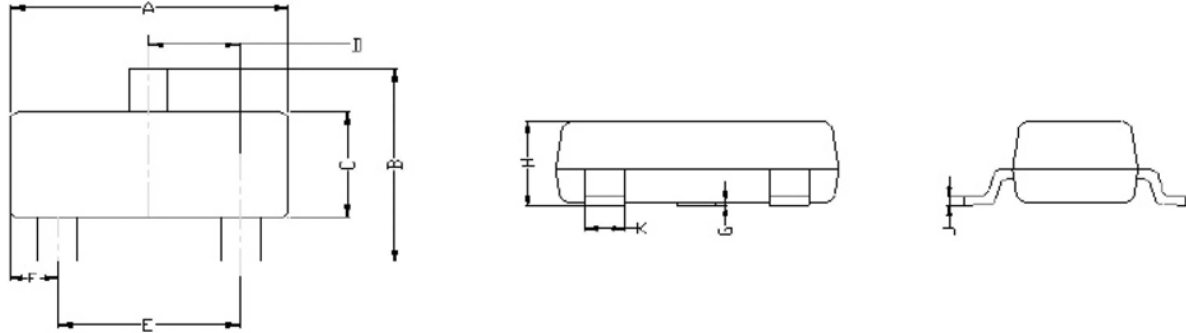


Figure 4. Power Derating Curve

Package Outline Dimensions (SOT-23)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.800	3.040	0.110	0.120
B	2.100	2.640	0.083	0.104
C	1.200	1.400	0.047	0.055
D	0.890	1.030	0.035	0.041
E	1.780	2.050	0.070	0.081
F	0.450	0.600	0.018	0.024
G	0.013	0.100	0.001	0.004
H	0.900	1.110	0.035	0.044
J	0.090	0.180	0.004	0.007
K	0.370	0.510	0.015	0.020

Order Information

Device	Package	Carrier	Quantity
GSBAR43x	SOT-23	Tape & Reel	3,000 pcs / 7" Reel