

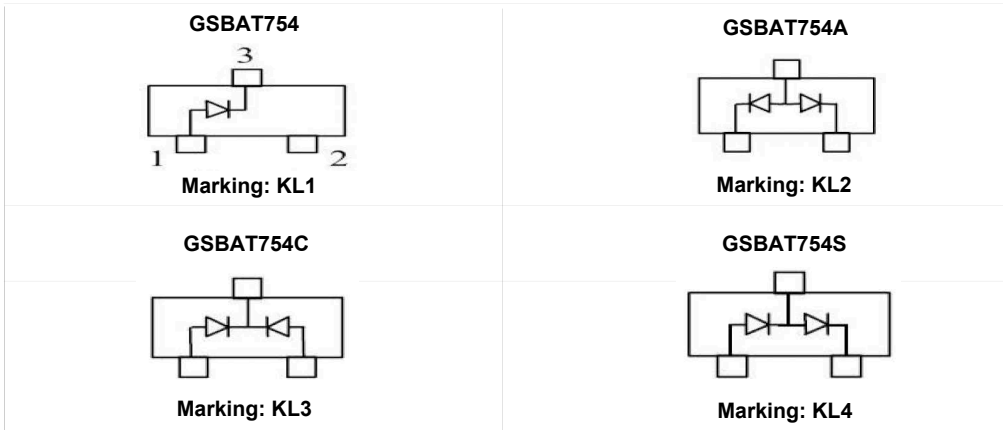
Features

- 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 specified)

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=1.0s)	I_{FSM}	1	A
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	500	$^{\circ}\text{C}/\text{W}$
Soldering Temperature During	T_J	260	$^{\circ}\text{C}$
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 specified)

Parameter	Symbol	Conditions	Min.	Max.	Unit
Forward Voltage	V_F	$I_F=0.1\text{mA}$	-	0.24	V
		$I_F=1\text{mA}$	-	0.32	
		$I_F=10\text{mA}$	-	0.40	
		$I_F=30\text{mA}$	-	0.50	
		$I_F=100\text{mA}$	0.6 (Typ.)	1.00	
Reverse Breakdown Voltage	V_R	$I_R=100\mu\text{A}$	30	-	V
Reverse Voltage Leakage Current	I_R	$V_R=25\text{V}$	-	10	μA
Typical Junction Capacitance	C_J	$V_R=1\text{V}$, $f=1.0\text{MHz}$	-	10	pF
Reverse Recovery Time	T_{rr}	$I_F=I_R=10\text{mA}$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$	-	5	nS

Typical Characteristic Curves

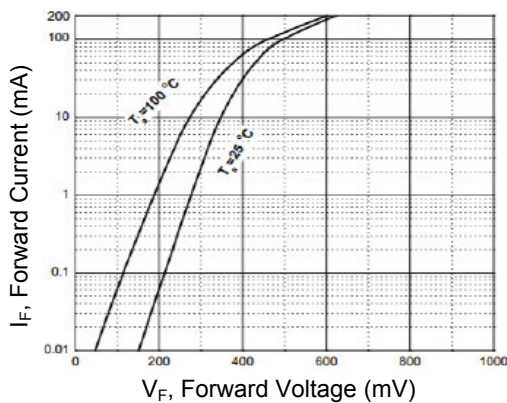


Figure 1. Forward Characteristics

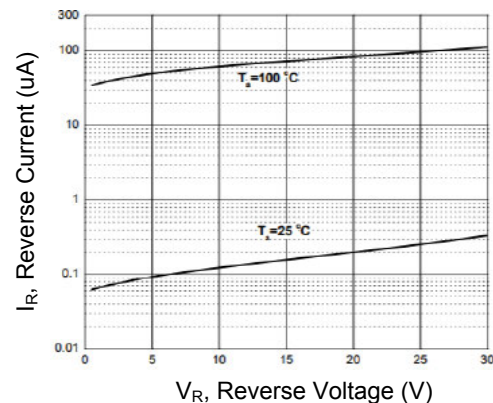


Figure 2. Reverse Characteristics

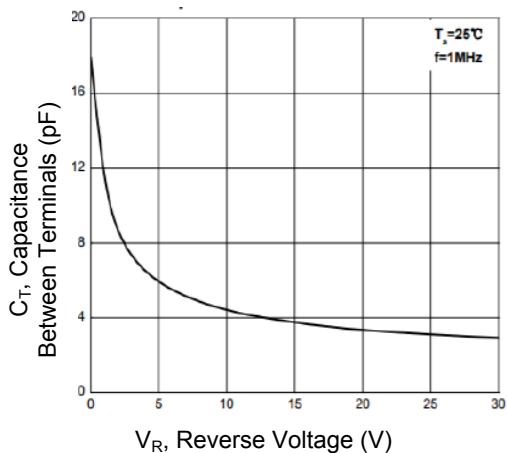


Figure 3. Capacitance Characteristics

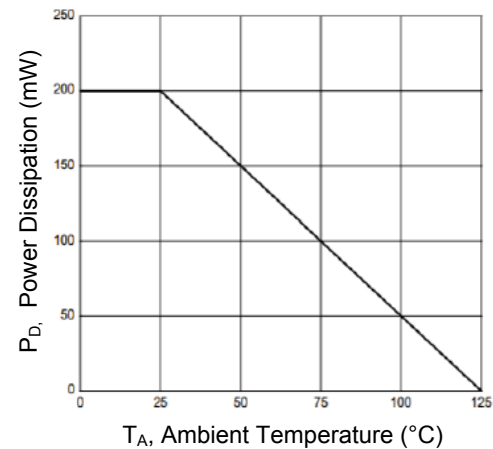
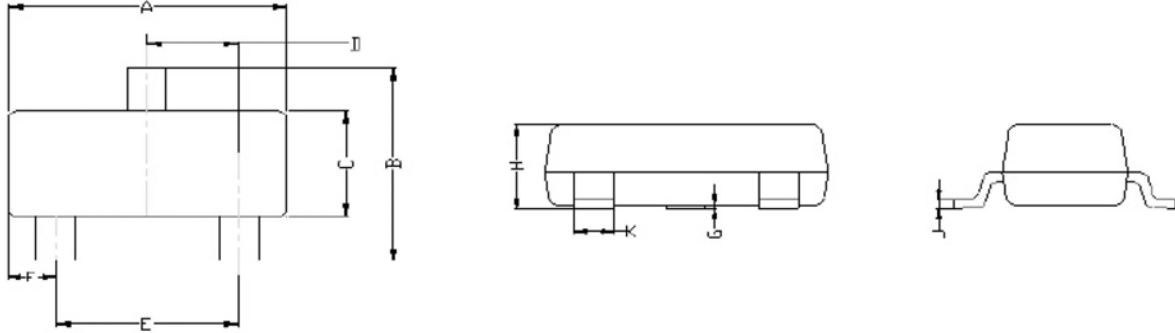


Figure 4. Power De-rating Curve

Package Outline Dimension (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
GSBAT754x	SOT-23	Tape & Reel	3,000 pcs / 7" Reel