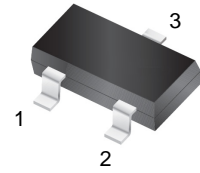


## Features

- Low forward voltage drop
- Fast switching
- PN junction guard ring for transient and ESD protection



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## Schematic Diagram and Marking

<p><b>GSBAT54T</b></p> <p><b>Marking: L1</b></p>	<p><b>GSBAT54AT</b></p> <p><b>Marking: L2</b></p>
<p><b>GSBAT54CT</b></p> <p><b>Marking: L3</b></p>	<p><b>GSBAT54ST</b></p> <p><b>Marking: L4</b></p>

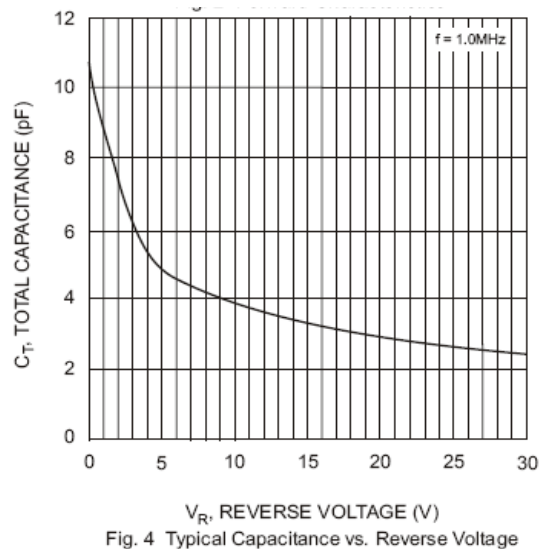
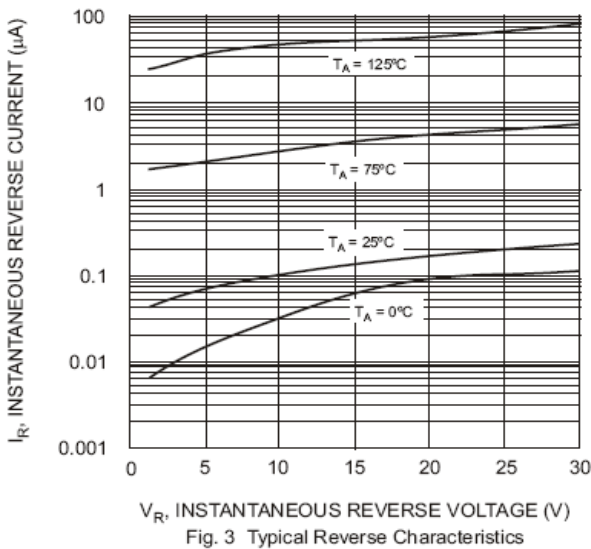
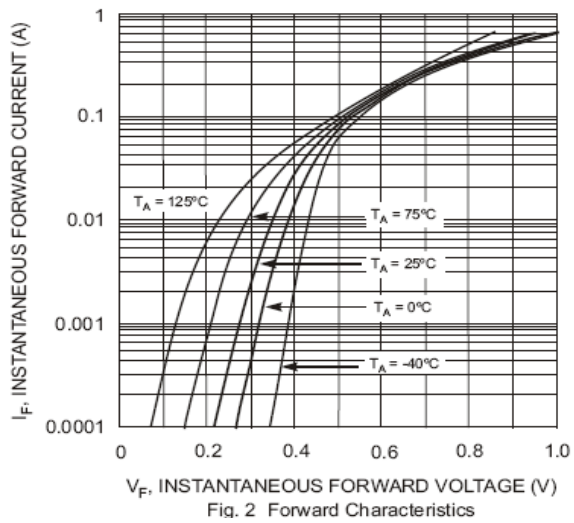
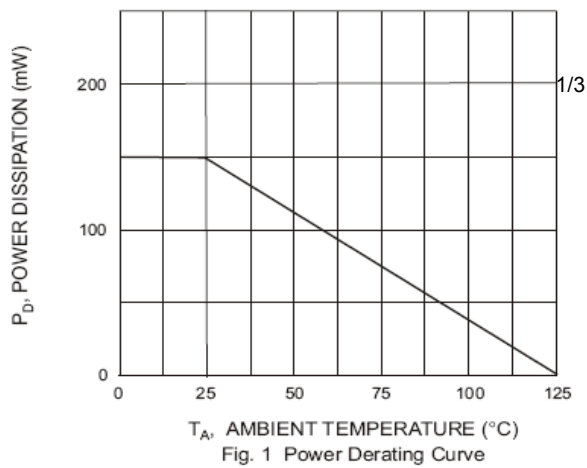
## Absolute Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	30	V
DC Reverse Voltage	V <sub>R</sub>	30	V
Forward Continuous Voltage	I <sub>F</sub>	200	mA
Repetitive Peak Forward Voltage	I <sub>FRM</sub>	300	mA
Non-repetitive Peak Forward Surge Current @t<1.0s	I <sub>FSM</sub>	600	mA
Power Dissipation	P <sub>D</sub>	150	mW
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	833	°C/W
Junction and Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150	°C

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

Parameter	Symbol	Test Conditions	Min	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	30		V
Leakage Current	$I_R$	$V_R=25\text{V}$		2.0	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=0.1\text{mA}$ $I_F=1.0\text{mA}$ $I_F=10\text{mA}$ $I_F=30\text{mA}$		240 320 400 500	mV
Typical Total Capacitance	$C_T$	$V_R=1.0\text{V}, f=1\text{MHz}$		10	pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=10\text{mA}, \text{to } I_R=1.0\text{mA } R_L=100\Omega$		5.0	ns

**Typical Electrical Characteristic Curves**



**Package Outline Dimensions**

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