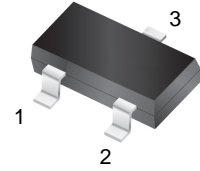



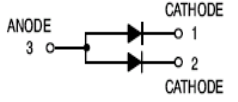
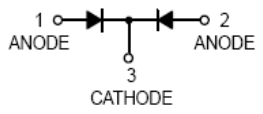
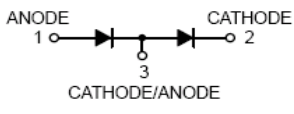
Features

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



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Schematic Diagram and Marking

<p>SPBAT54T</p>  <p>Marking: L1</p>	<p>SPBAT54AT</p>  <p>Marking: L2</p>
<p>SPBAT54CT</p>  <p>Marking: L3</p>	<p>SPBAT54ST</p>  <p>Marking: L4</p>

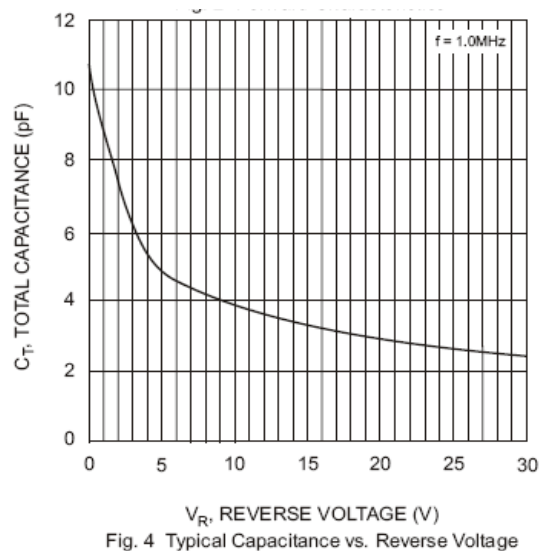
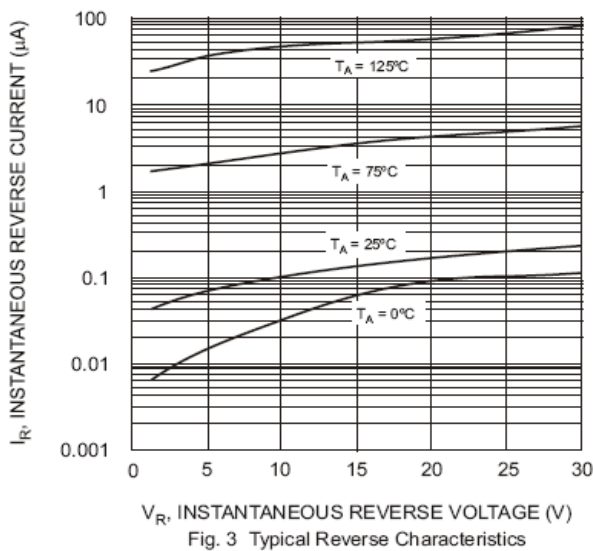
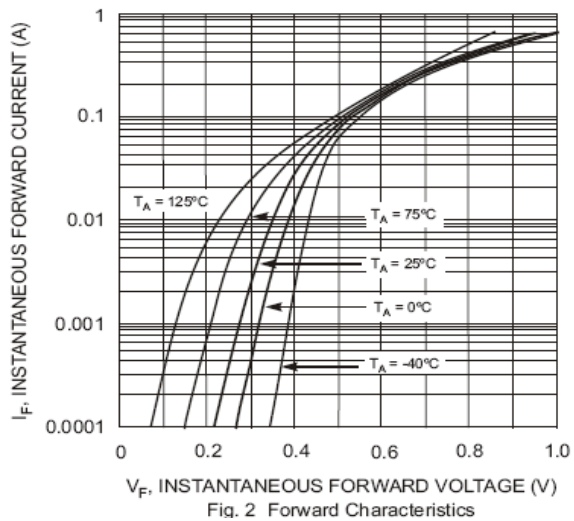
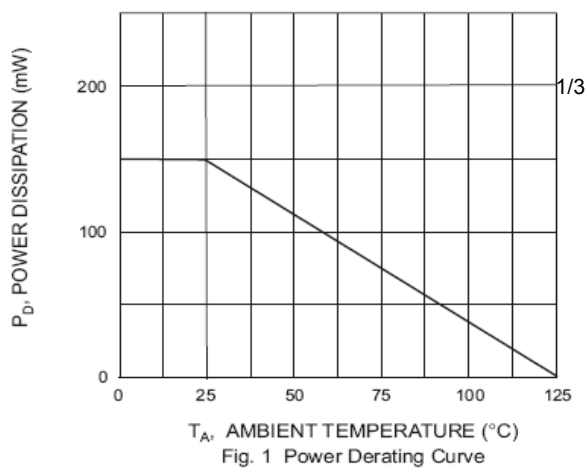
Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}	30	V
DC Reverse Voltage	V _R	30	V
Forward Continuous Voltage	I _F	200	mA
Repetitive Peak Forward Voltage	I _{FRM}	300	mA
Non-repetitive Peak Forward Surge Current @t<1.0s	I _{FSM}	600	mA
Power Dissipation	P _D	150	mW
Thermal Resistance Junction to Ambient	R _{θJA}	833	°C/W
Junction and Storage Temperature	T _J , T _{STG}	-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	μA
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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