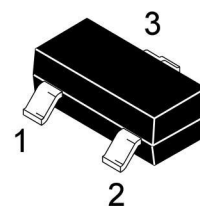


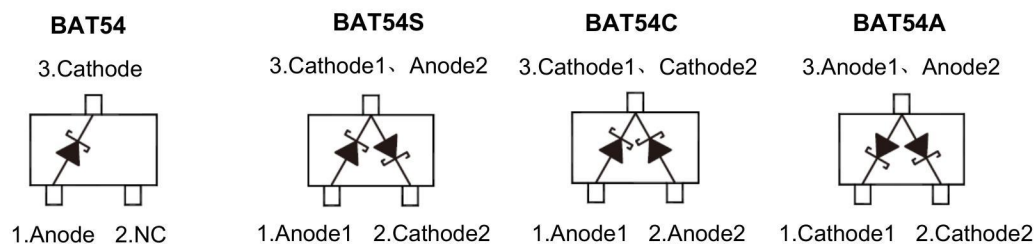
Features

- Small package
- Small capacitance

SOT-23



Equivalent Circuit



Marking Code :

BAT54 : L4
 BAT54S : L44
 BAT54C : L43
 BAT54A : L42

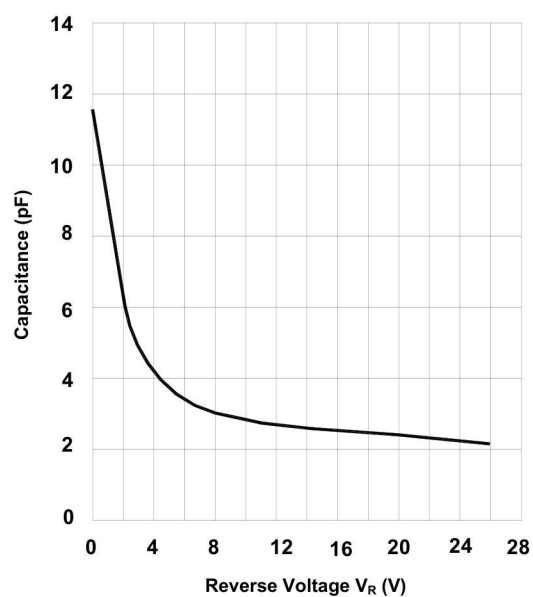
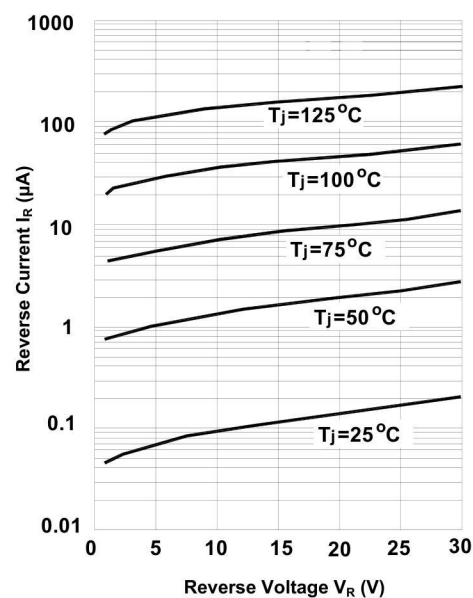
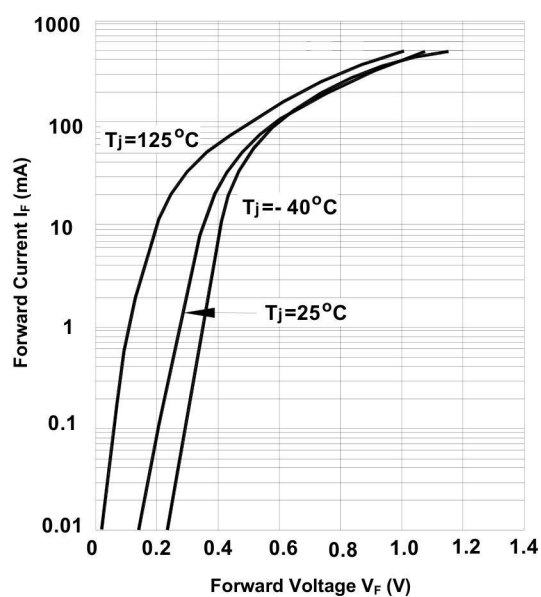
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)

Parameter	Symbols	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Non-Repetitive Peak Forward Surge Current at 1s	I_{FSM}	600	mA
Power Dissipation	P_D	290	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	430	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

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

Parameter	Symbols	Min.	Max.	Unit
Forward Voltage at $I_F = 0.1 \text{ mA}$ at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 30 \text{ mA}$ at $I_F = 100 \text{ mA}$	V_F	-- -- -- -- --	240 320 400 500 1000	mV
Reverse Current at $V_R = 25 \text{ V}$	I_R	--	2	μA
Breakdown Voltage at $I_R = 10 \mu\text{A}$	$V_{R(BR)}$	30	--	V
Total Capacitance at $V_R = 1 \text{ V}$, $f = 1 \text{ MHz}$	C_T	--	10	pF
Reverse Recovery Time at $I_F = 10 \text{ mA}$, $I_R = 10 \text{ mA}$, $I_{RR} = 1 \text{ mA}$, $R_L = 100 \Omega$	T_{rr}	--	5	ns

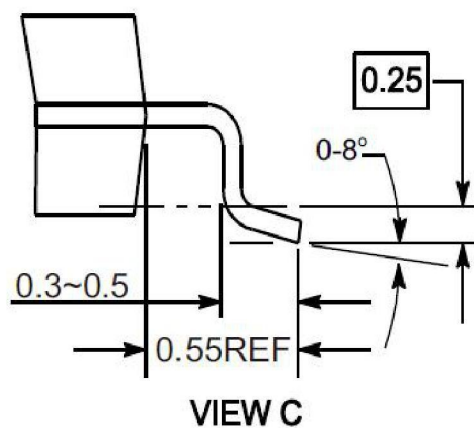
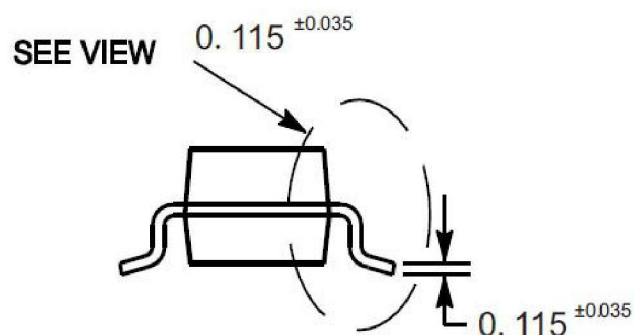
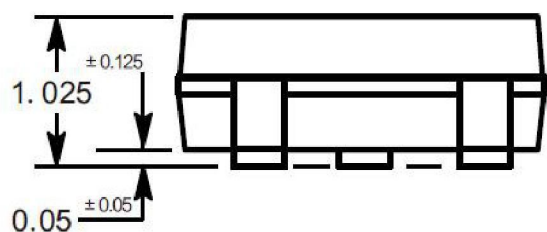
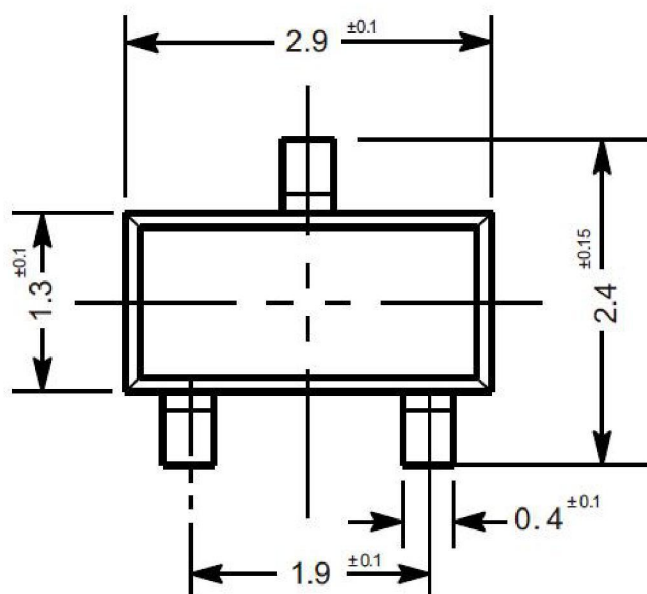
Typical Characteristic Curves



Package Outline

SOT-23

Dimensions in mm



Ordering Information

Device	Package	Shipping
BAT54 Series	SOT-23	3,000PCS/Reel&7inches