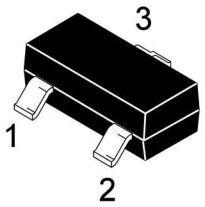
BAT54 Series
Schottky Barrier Rectifiers

Features

- Small package
- Small capacitance

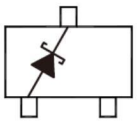
SOT-23



Equivalent Circuit

BAT54

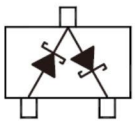
3.Cathode



1.Anode 2.NC

BAT54S

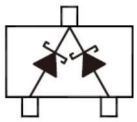
3.Cathode1、Anode2



1.Anode1 2.Cathode2

BAT54C

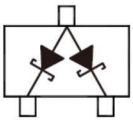
3.Cathode1、Cathode2



1.Anode1 2.Anode2

BAT54A

3.Anode1、Anode2



1.Cathode1 2.Cathode2

Marking Code :

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

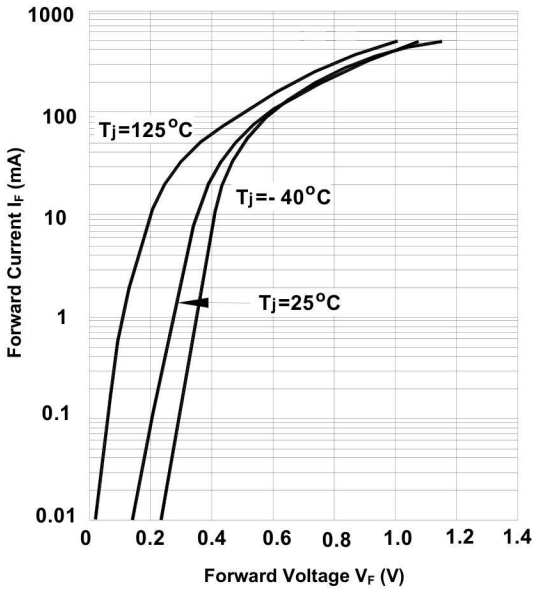
Absolute Maximum Ratings (T_A=25℃)

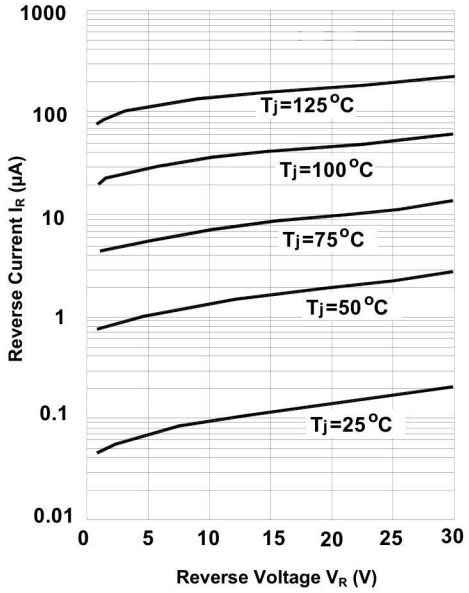
Parameter	Symbols	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Non-Repetitive Peak Forward Surge Current at 1s	I_{FSM}	600	mA
Power Dissipation	P_D	290	mW
Thermal Resistance Junction to Ambient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

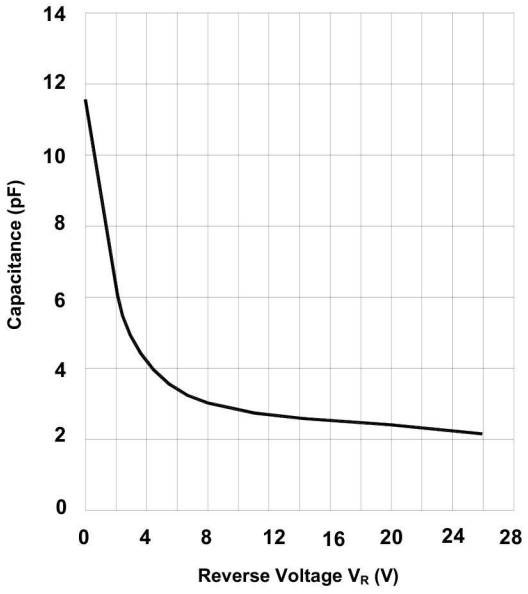
Electrical Characteristics (T_A=25℃)

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

Typical Characteristic Curves



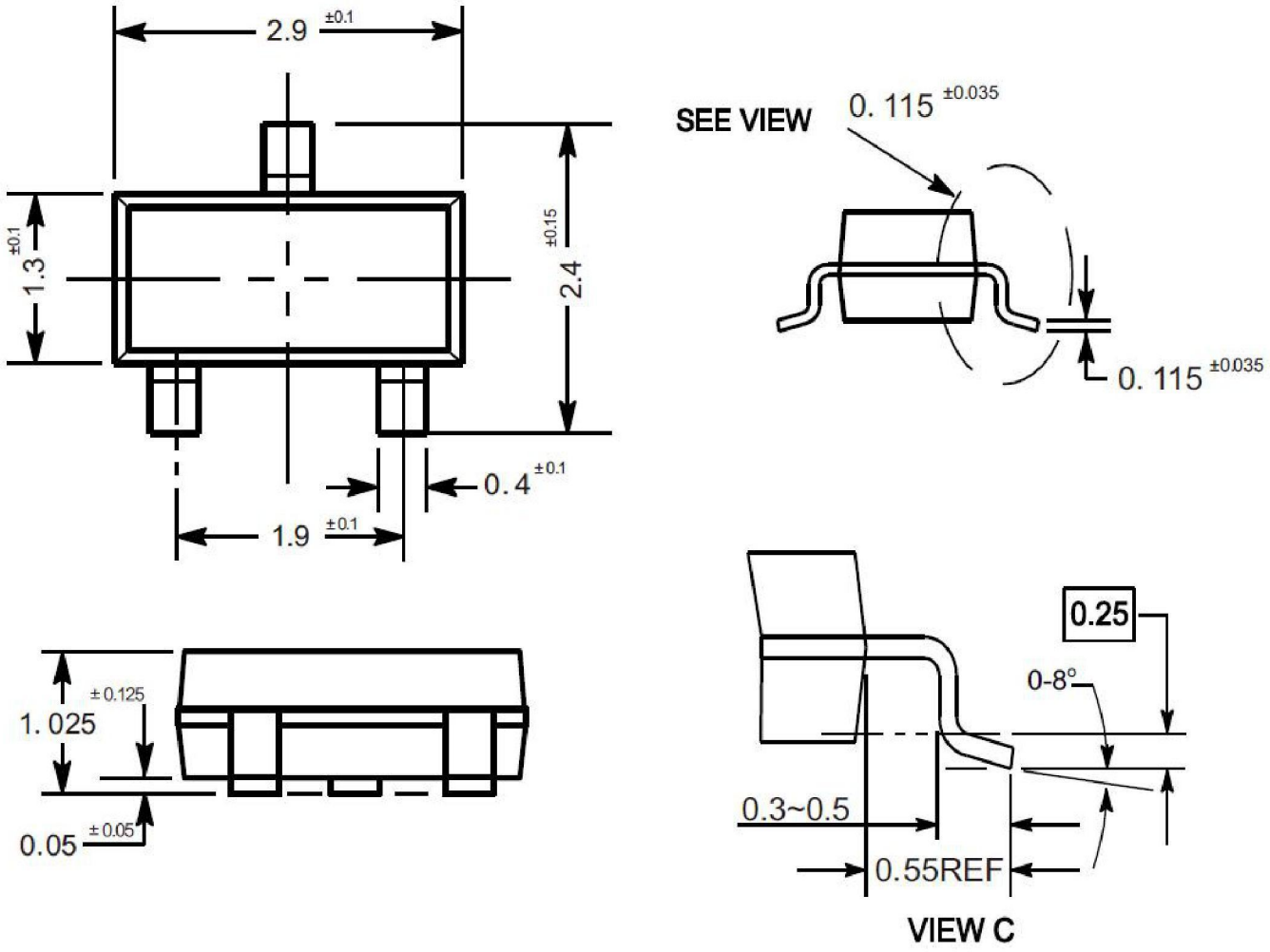




Package Outline

SOT-23

Dimensions in mm



Ordering Information

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