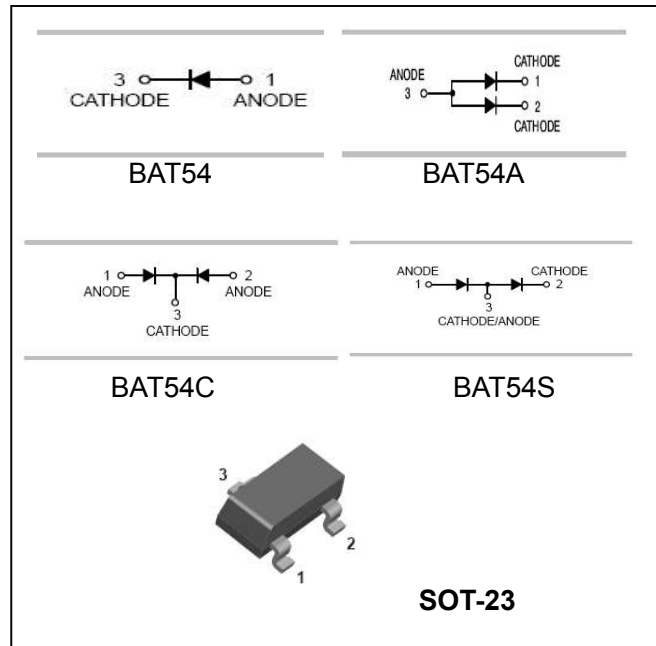


## FEATURES

- Fast switching .
- Low Turn-on voltage.
- PN Junction Guard Ring for Transient and ESD Protection.
- Available in Lead Free Version.



## ORDERING INFORMATION

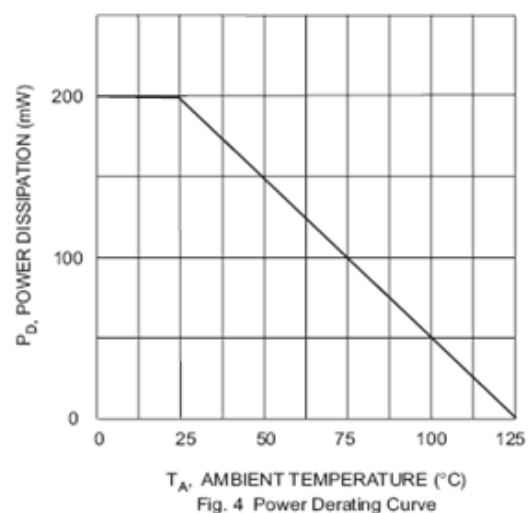
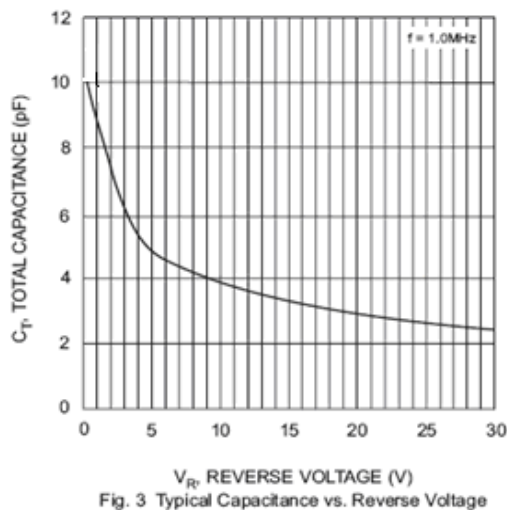
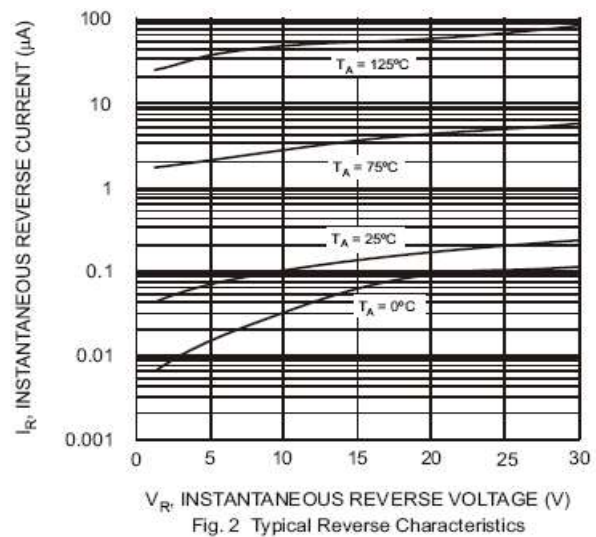
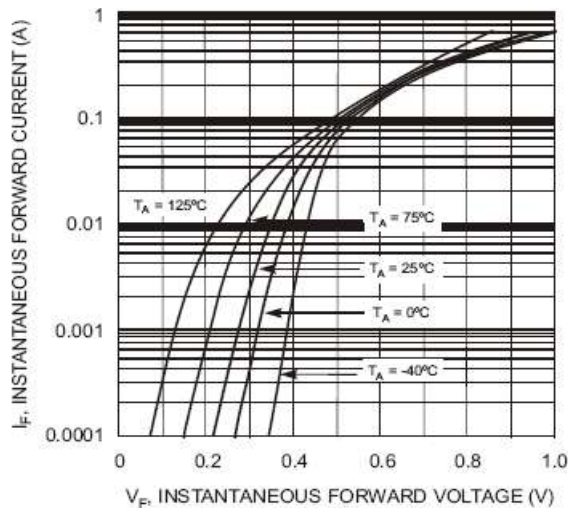
Type No.	Marking	Package Code
BAT54	KL1	SOT-23
BAT54A	KL2	SOT-23
BAT54C	KL3	SOT-23
BAT54S	KL4	SOT-23

## MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	$V_{RRM}$	30	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Reverse Voltage	$V_R$		
Forward Continuous Current	$I_F$	200	mA
Repetitive Peak Forward Current	$I_{FRM}$	300	mA
Forward surge current	$I_{FSM}$	600	mA
Power Dissipation	$P_d$	200	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	500	°C/W
Operating and Storage temperature	$T_J, T_{STG}$	-55 to +150	°C

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

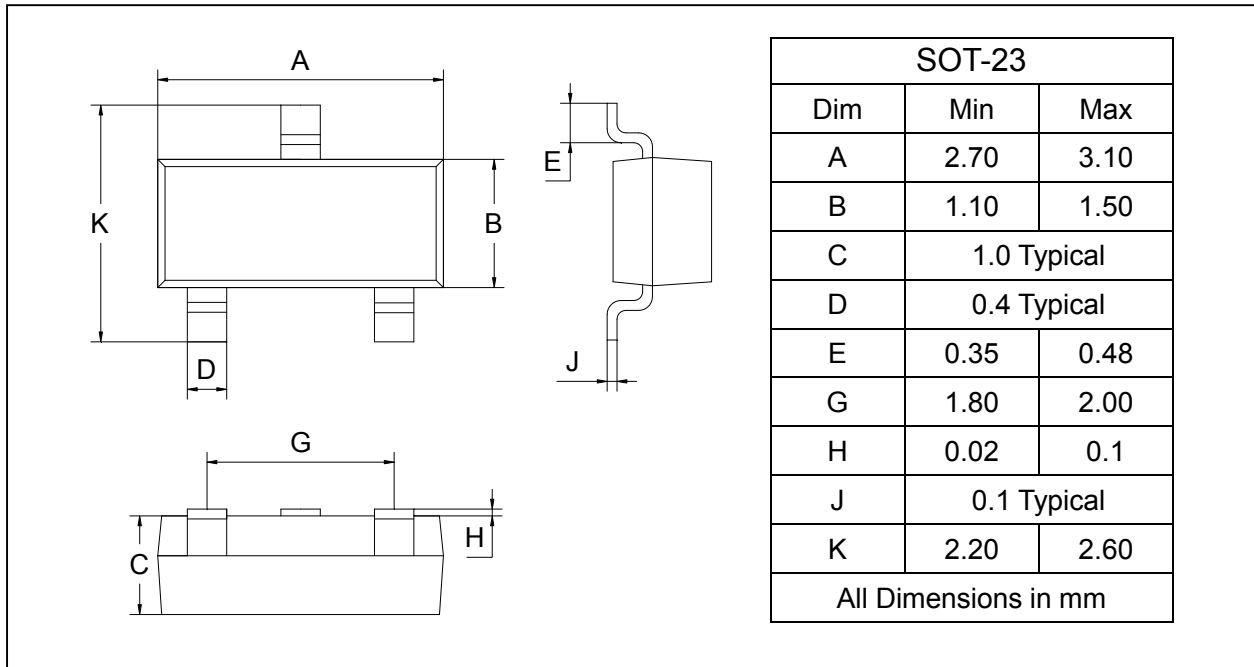
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	30			V	$I_R=100\mu A$
Forward voltage	$V_{F1}$			0.24	V	$I_F=0.1mA$
				0.32	V	$I_F=1mA$
				0.40	V	$I_F=10mA$
				0.50	V	$I_F=30mA$
				0.8	V	$I_F=100mA$
Reverse current	$I_R$			2	$\mu A$	$V_R=25V$
Diode Capacitance	$C_D$			10	pF	$V_R=1V, f=1MHz$
Reverse Recovery Time	$t_{rr}$			5	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**


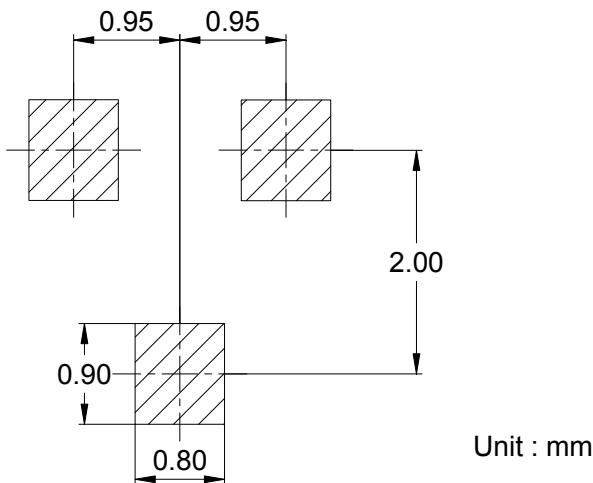
## PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



## SOLDERING FOOTPRINT



## PACKAGE INFORMATION

Device	Package	Shipping
BAT54/A/C/S	SOT-23	3000/Tape&Reel

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[SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914BTR](#) [RFUH20TB3S](#) [D291S45T](#) [BAV300-TR](#) [BAW56DWQ-](#)  
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