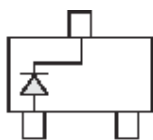


# 200mA SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

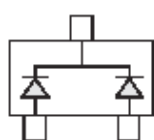
## Description

## Mechanical Dimensions

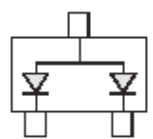
BAT54



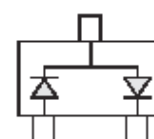
Single



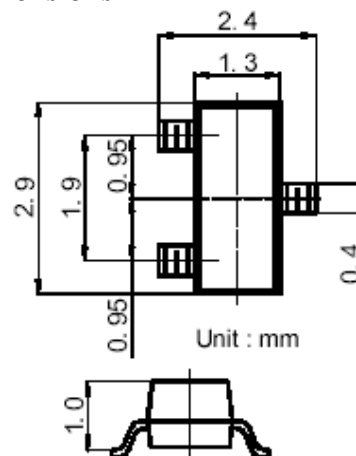
Common Cathode



Common Anode



Series



SOT-23

Dimensions in mm

### Feature

- \* Low Turn-On Voltage
- \* Fast Switching, Marking: Single, Series, Common Cathode, Anode--BAT54, 54S, 54C, 54A
- \* Ultra Small Surface mount Package
- \* PN Junction Gard Ring for Transient and ESD protection
- \* Weight: 0.008gram

### Max Ratings at Ta=25C Unless Otherwise Specified

Characteristic	Symbol	BAT54	BAT54A	BAT54C	BAT54S	Unit
Peak Repetitive Reverse Voltage	Vrrm	30	30	30	30	V
working Peak Reverse Voltage	Vrwm	30	30	30	30	V
DC Blocking Voltage	Vdc	30	30	30	30	V
RMS Reverse Voltage	Vr(rms)	21	21	21	21	V
Power Dissipation	Pd	200	200	200	200	mW
Forward Continuous Current	If	200	200	200	200	mA
Repetitive Peak Forward Surge Current	Ifrm	300				mA
Peak Forward Surge Current @t=1.0s	Ifsm	600	600	600	600	mA
Operating & storage Temp. Range	Tj/Ts	-55~+125				C
Max Forward Voltage	Vf	240 @ 0.1mA, 400 @ 10mA, 0.32 @ 1mA, 500 @ 30mA, 1000 @100mA				mV
Reverse Leakage Current	Ir	2				uA
Typical Junction Capacitance Vr=1.0V, f=1.0MHz	Cj	10				pF
Thermal Resistance Junction to Ambient Air	Rthja	500				C/W

# 200mA SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

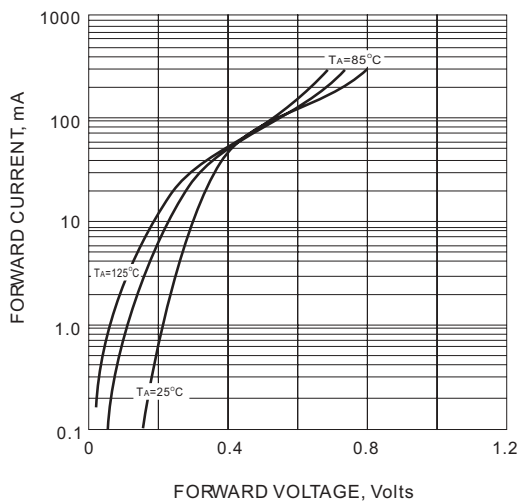


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

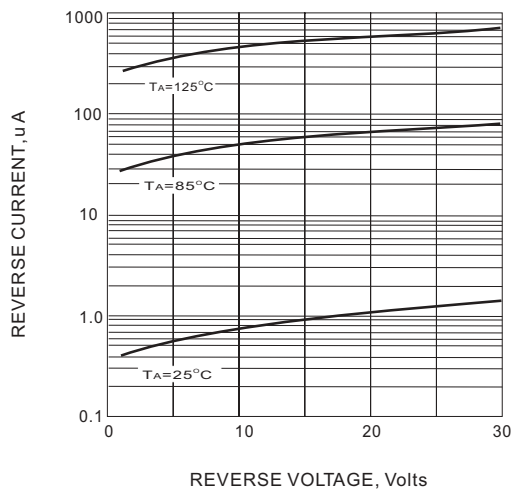


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

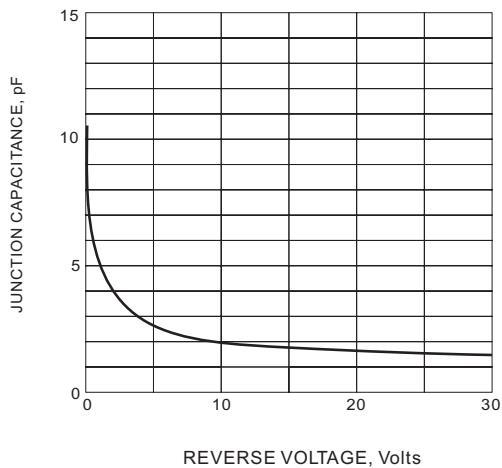


FIG. 3 TYPICAL JUNCTION CAPACITANCE

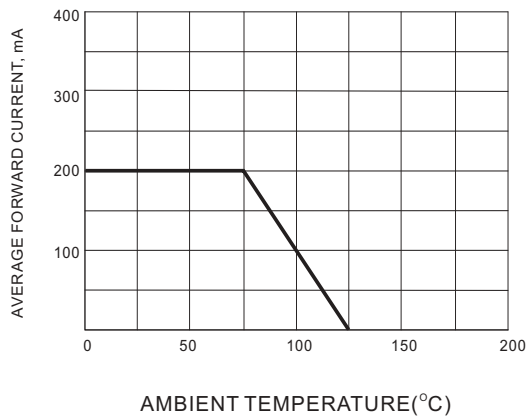


FIG. 4 FORWARD CURRENT DERATING