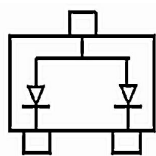
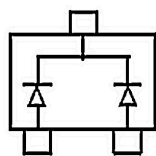


FEATURES

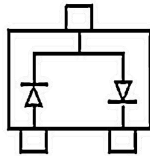
* Extremely Fast Switching Speed



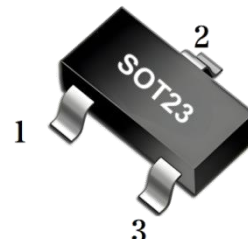
BAT54A MARKING: KL2



BAT54C MARKING: KL3

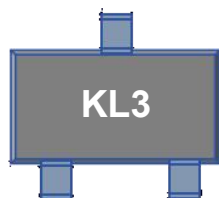


BAT54S MARKING: KL4



MARKING

EXAMPLE: Marking: KL3



BAT54A	KL2
BAT54C	KL3
BAT54S	KL4

ABSOLUTE MAXIMUM RATINGS(TA=25°C, unless otherwise specified.)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM	Peak Repetitive Reverse Voltage	30	V
VRWM	Working Peak Reverse Voltage	30	V
VR	DC Blocking Voltage	30	V
IFM	Forward Continuous Current	0.2	A
IFSM	Non-Repetitive Peak Forward Surge Current @t=8.3ms	0.6	A
IFRM	Repetitive Peak Forward Current @ t≤1s, δ ≤0.5	0.3	A
PD	Power Dissipation	0.2	W
TJ	Junction Temperature	150	°C
TSTG	Storage Temperature	-55~150	°C
RθJA	Thermal Resistance from Junction to Ambient	500	°C/W

Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

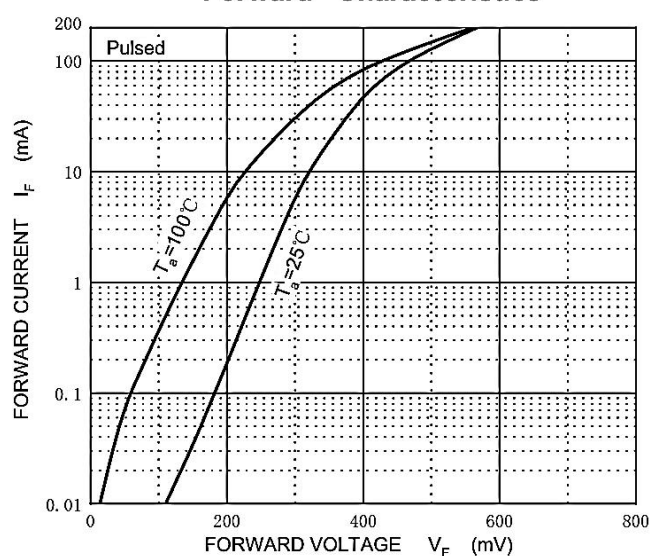
ELECTRICAL CHARACTERISTICS (TA=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse voltage	V(BR)	IR=100μA	30			V
Reverse current	IR	VR=25V			2	μA
Diode capacitance	Cd	VR=1V, f=1MHz			10	pF
Reverse recovery time	trr	IF=IR=10mA, Irr=0.1×IR, RL=100Ω			5	ns

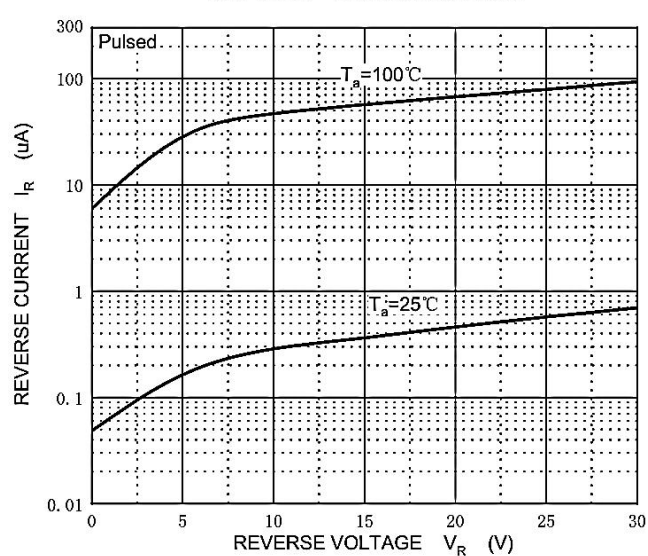
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward voltage	VF1	IF1=0.1mA			0.24	V
		IF2=1mA			0.32	V
		IF3=10mA			0.40	V
		IF4=30mA			0.50	V
		IF5=100mA			1	V

■ Typical Characteristics

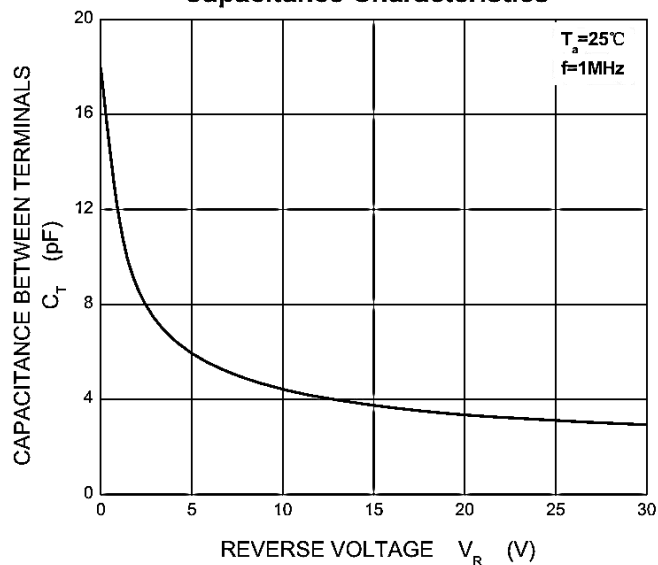
Forward Characteristics



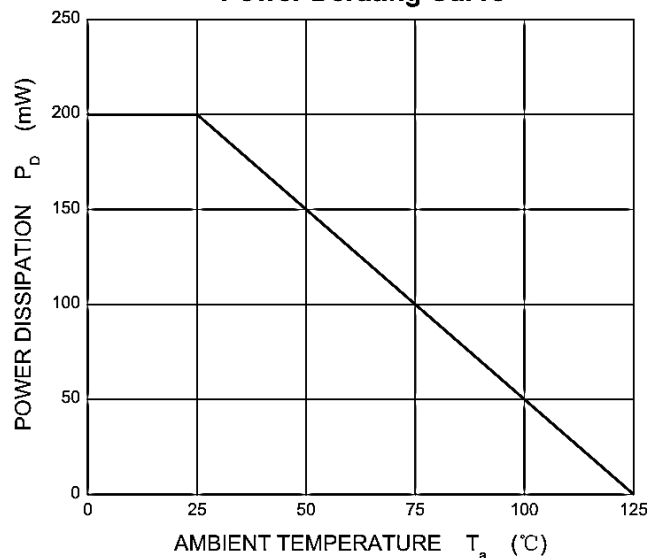
Reverse Characteristics



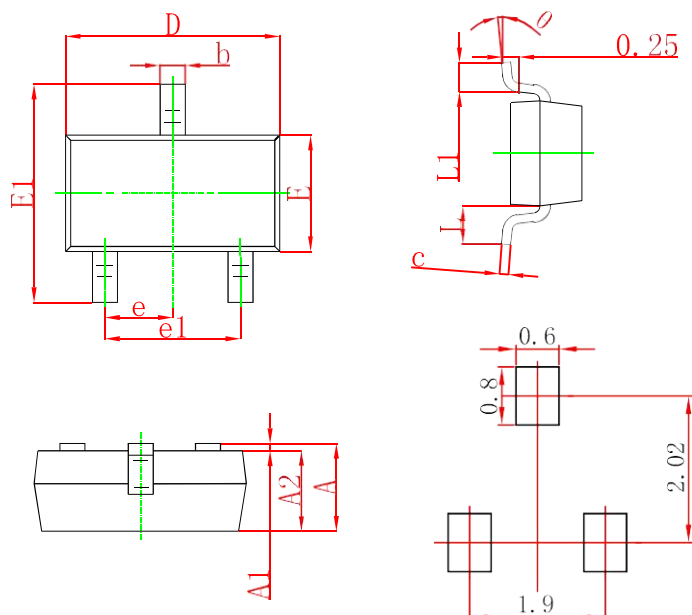
Capacitance Characteristics



Power Derating Curve



■ SOT23 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.