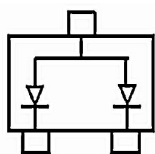


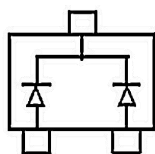


■ FEATURES

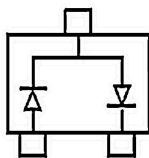
* Extremely Fast Switching Speed



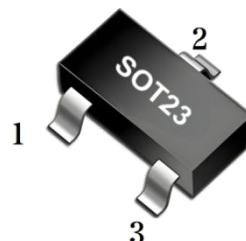
BAT54A MARKING: KL2



BAT54C MARKING: KL3

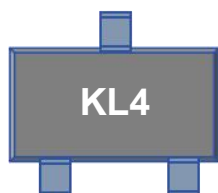


BAT54S MARKING: KL4



■ MARKING

EXAMPLE: Marking: KL4



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)

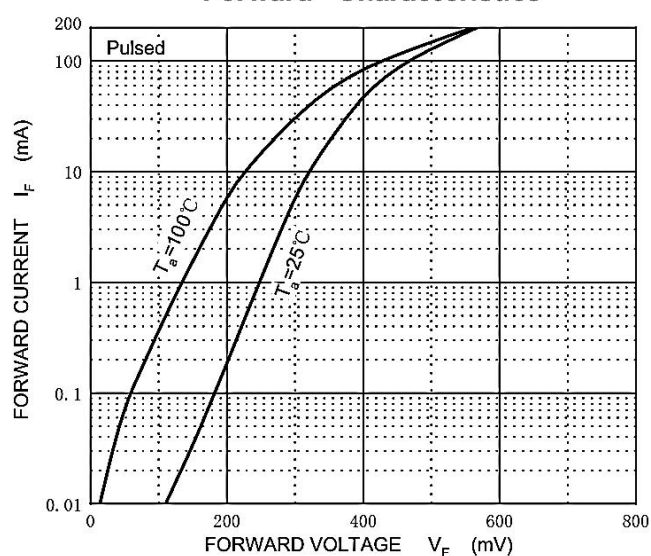
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse voltage	V(BR)	IR=100μA	30			V
Reverse current	IR	VR=25V			2	μA
Diode capacitance	Cd	VR=1V,f=1MHz			10	pF
Reverse recovery time	trr	IF=IR=10mA,Irr=0.1×IR,RL=100Ω			5	ns



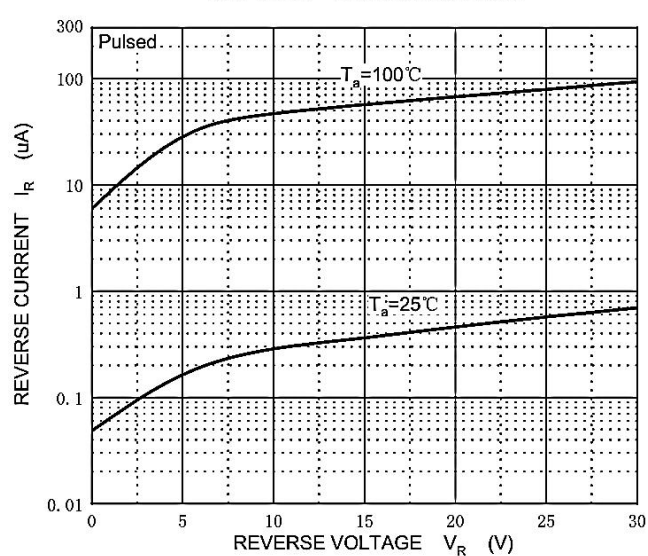
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward voltage	VF1	IF1=0.1mA			0.24	V
		IF2=1mA			0.32	V
		IF3=10mA			0.40	V
		IF4=30mA			0.50	V
		IF5=100mA			1	V

■ Typical Characteristics

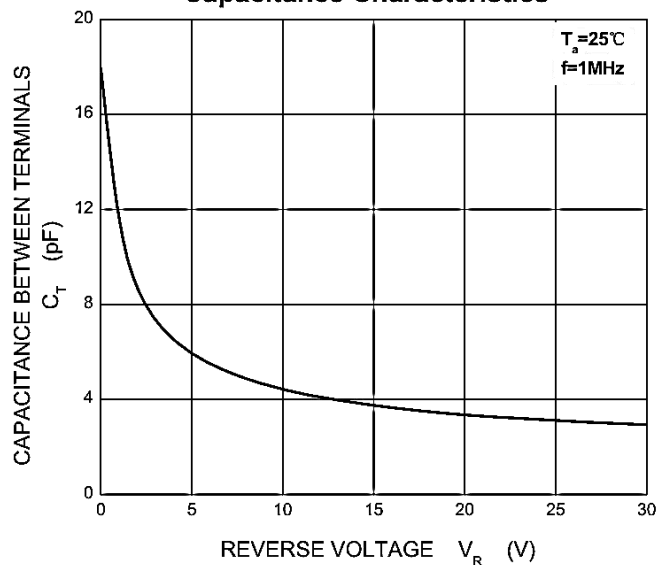
Forward Characteristics



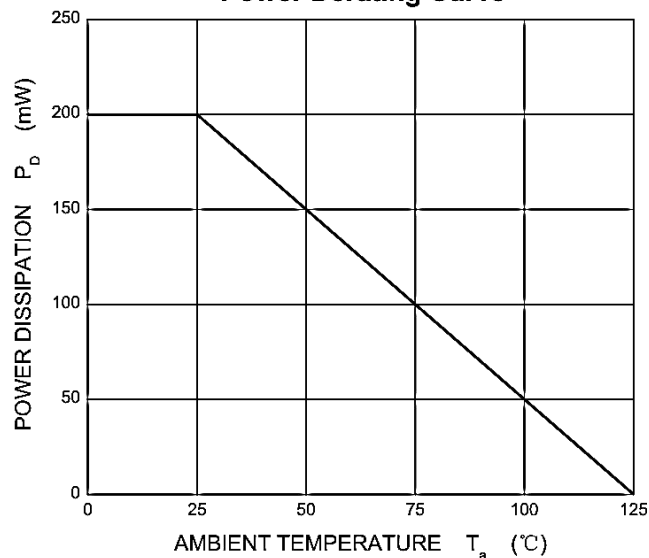
Reverse Characteristics



Capacitance Characteristics

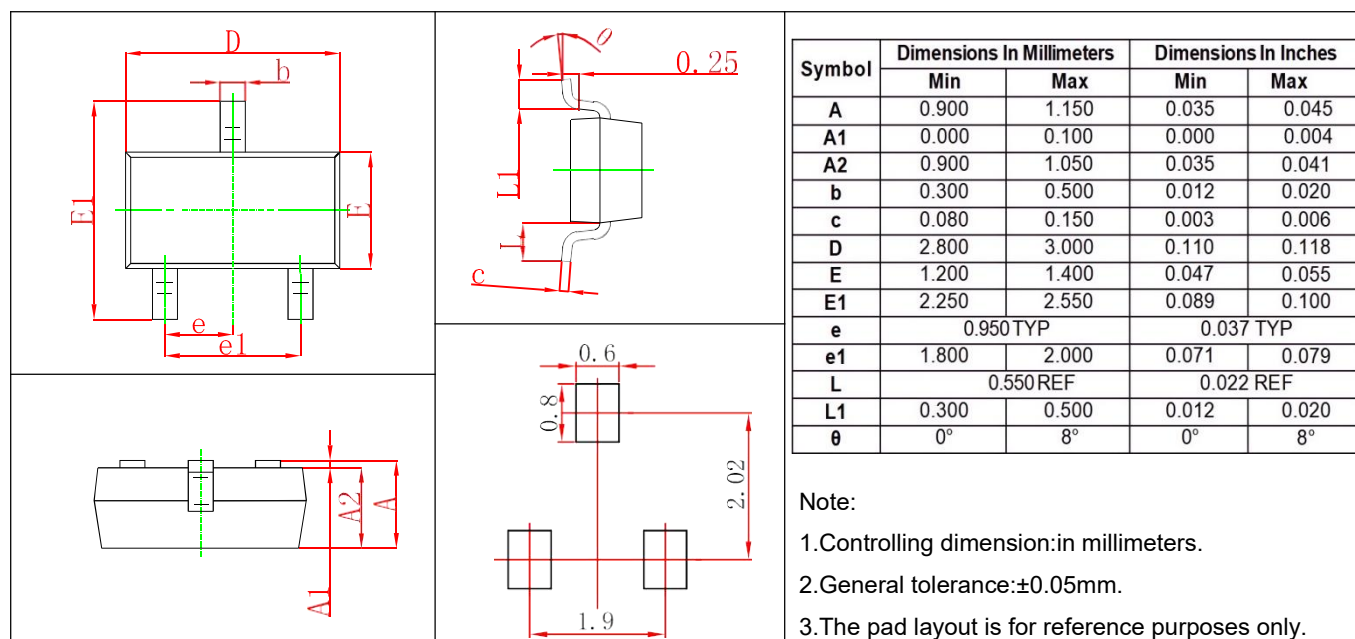


Power Derating Curve

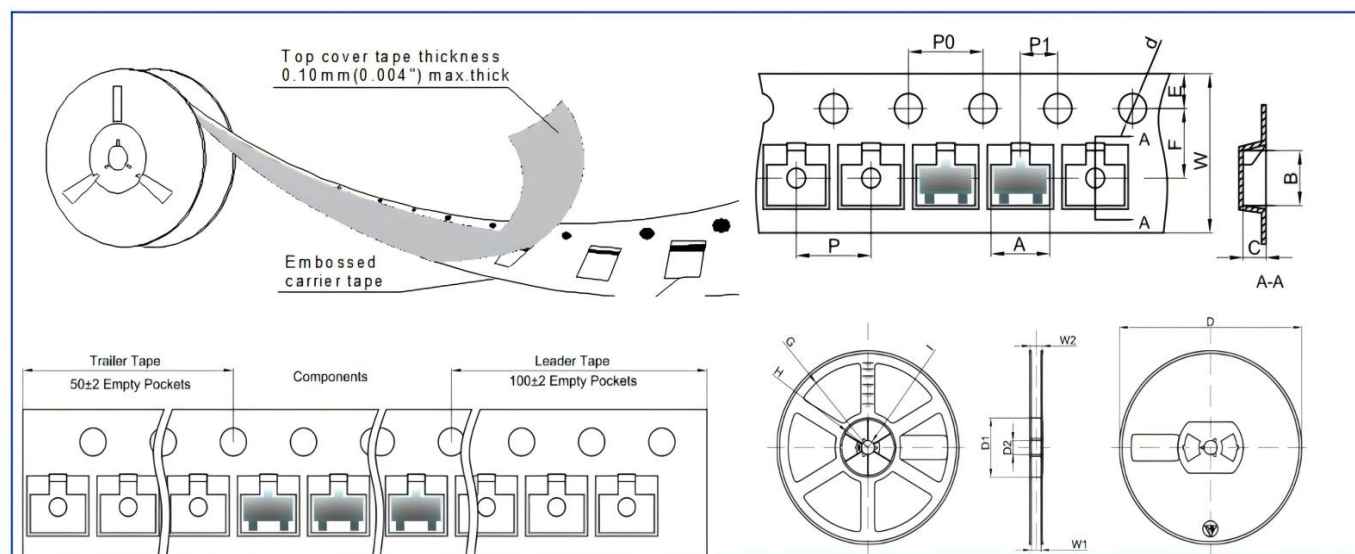




■ SOT23 PACKAGE OUTLINE DIMENSIONS



■ REEL PACKING



Dimensions are in millimeter										
PKG TYPE	A	B	C	d	E	F	Po	P	P1	W
SOT-23	3.15	2.77	1.22	Φ1.50	1.75	3.50	4.00	4.00	2.00	8.00
Reel Optiom	D	D1	D2	G	H	I	W1	W2	Q.TY PER REEL	
7" Dia	Φ178.0	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	3000PCS	
13"Dia	φ330.0	/	13.00	/	/	R6.50	9.50	12.30	10000PCS	