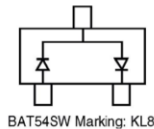
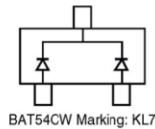
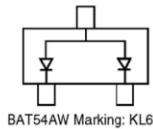
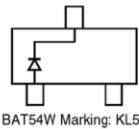
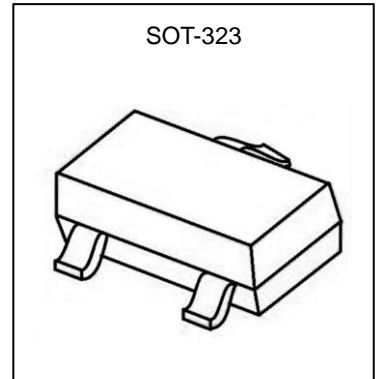


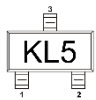
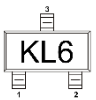
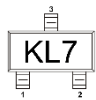
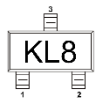
BAT54W/AW/CW/SW Schottky Barrier Diode

Feature

- Extremely Fast Switch Speed
- Low Forward Voltage



MARKING:

BAT54W	BAT54AW	BAT54CW	BAT54SW
			

ABSOLUTE MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

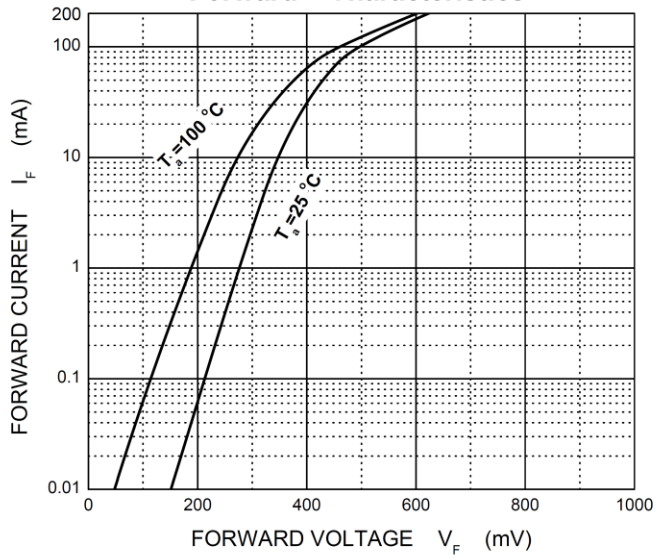
Parameter	Symbol	Value	Unit
DC reverse voltage	V _R	30	V
Mean rectifying current	I _O	0.2	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	0.6	A
Power Dissipation	P _D	0.2	W
Thermal Resistance from Junction to Ambient	R _{θJA}	500	°C/W
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise noted)

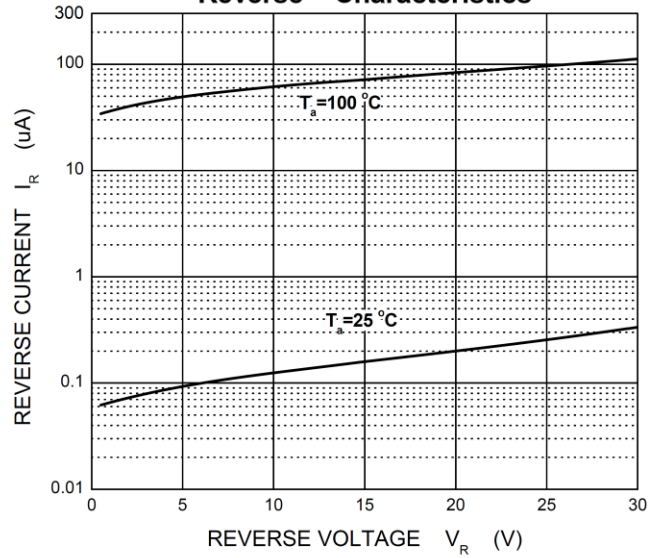
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =100μA	30			V
Forward voltage	V _{F1}	I _F =0.1mA			0.24	V
	V _{F2}	I _F =1mA			0.32	V
	V _{F3}	I _F =10mA			0.40	V
	V _{F4}	I _F =30mA			0.50	V
	V _{F5}	I _F =100mA			1	V
Reverse current	I _R	V _R =25V			2	μA
Reverse recovery time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1* I _R , R _L =100Ω			5	ns
Capacitance between terminals	C _T	V _R =1V, f=1MHz			10	pF

Typical Characteristics

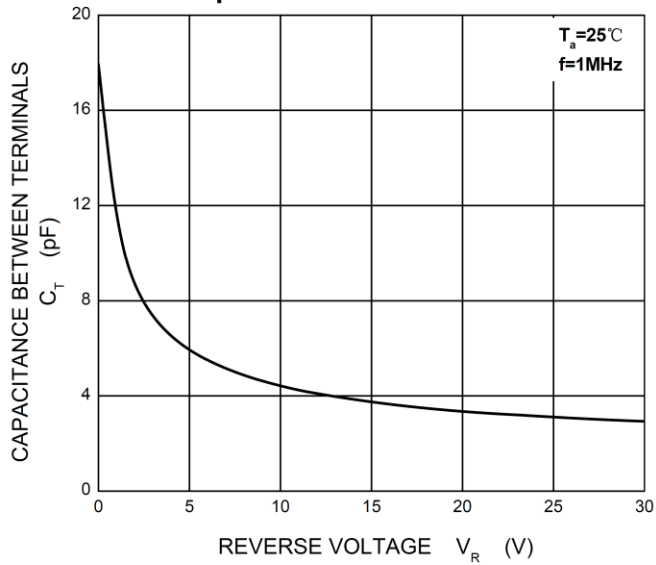
Forward Characteristics



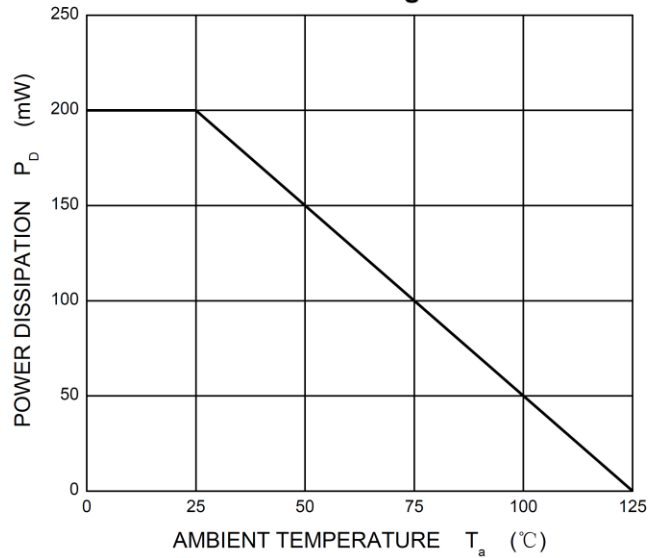
Reverse Characteristics



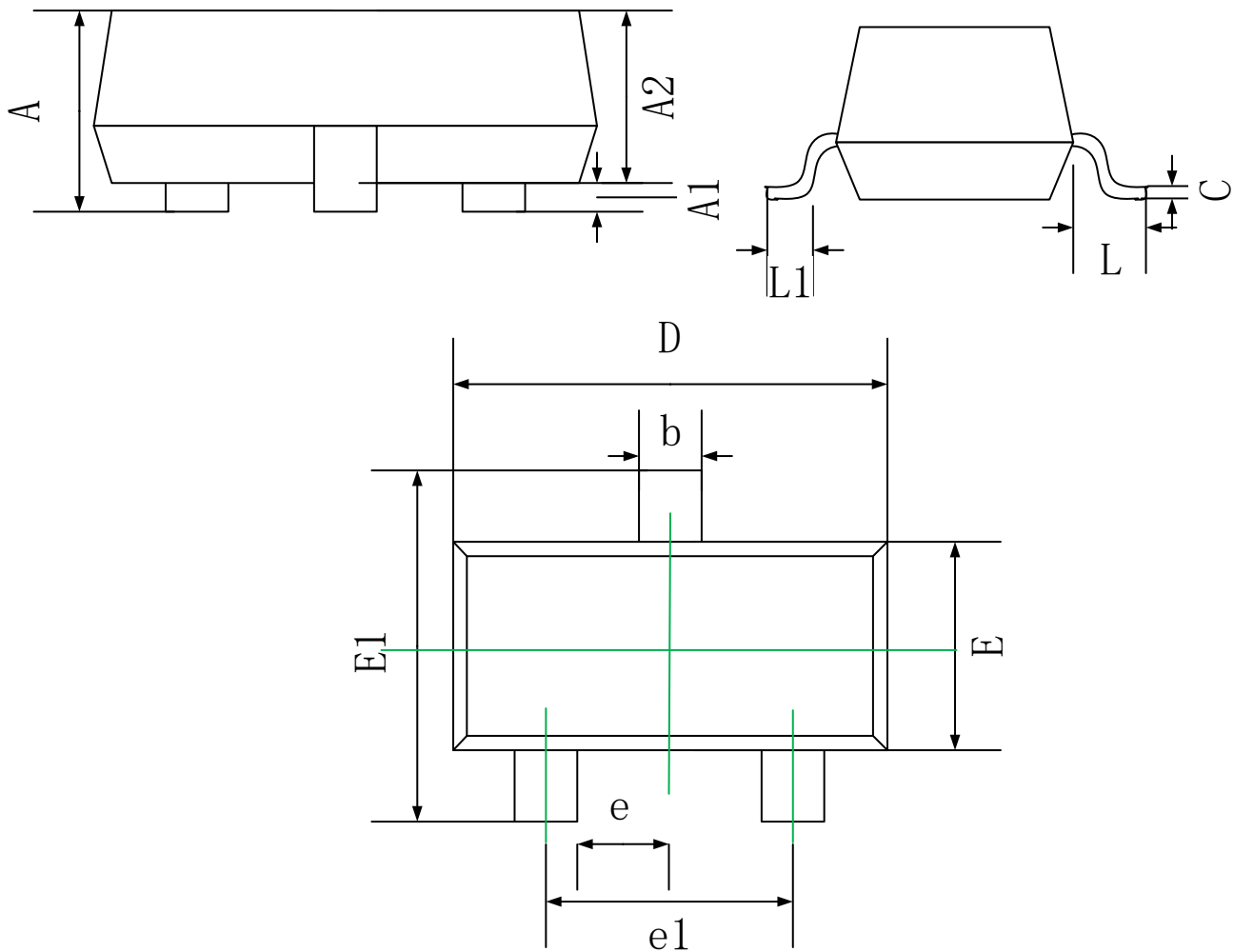
Capacitance Characteristics



Power Derating Curve



SOT-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters	
	Min.	Max.
A	0.90	1.10
A1	0.00	0.10
A2	0.90	1.00
b	0.20	0.40
c	0.08	0.15
D	2.00	2.20
E	1.15	1.35
E1	2.15	2.45
e	0.650 TYP.	
e1	1.20	1.40
L	0.525 REF.	
L1	0.26	0.46