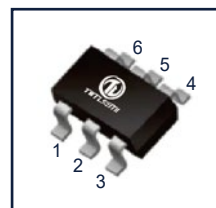
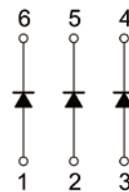


Features

- Low Forward Voltage Drop
- Fast Switching
- Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Available in Lead Free Version



SOT-363



Equivalent Circuit

Absolute Maximum Ratings(TA=25℃)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Peak Reverse Voltage	30	V
V _{RWM}	Working Peak Reverse Voltage		
V _R	DC Blocking Voltage		
I _O	Forward Continuous Current	200	mA
I _{FRM}	Repetitive Peak Forward Current	300	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current @t=8.3ms	600	mA
P _d	Power Dissipation	200	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	500	℃/W
T _J	Operating Junction Temperature Range	125	℃
T _{stg}	Storage Temperature Range	-55~+150	℃

Electrical Characteristics (TA=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Max	Unit
V _(BR)	Reverse breakdown voltage	I _R =100μA	30		V
I _R	Reverse current	V _R =25V		2	μA
V _F	Forward voltage	I _F =1mA		320	mV
		I _F =10mA		400	
		I _F =30mA		500	
		I _F =100mA		1000	
C _D	Diode capacitance	V _R =1V, f=1MHz		10	pF
t _{rr}	Reverse recovery time	I _F =I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω		5	nS

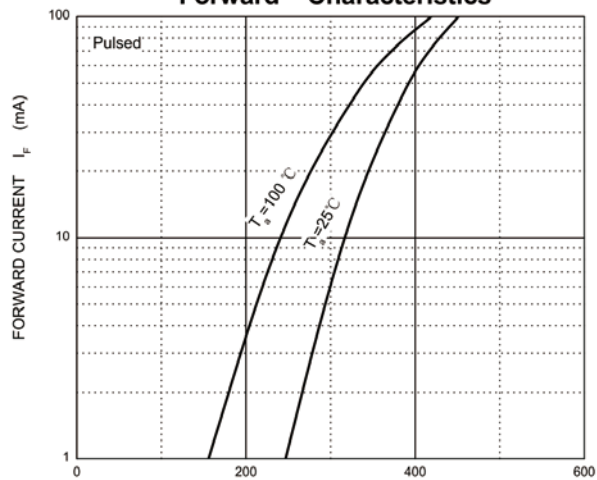
Ordering information

Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAT54TW	KLA	BAT54TW ↓ 产品名称 product name	SOT-363	3000

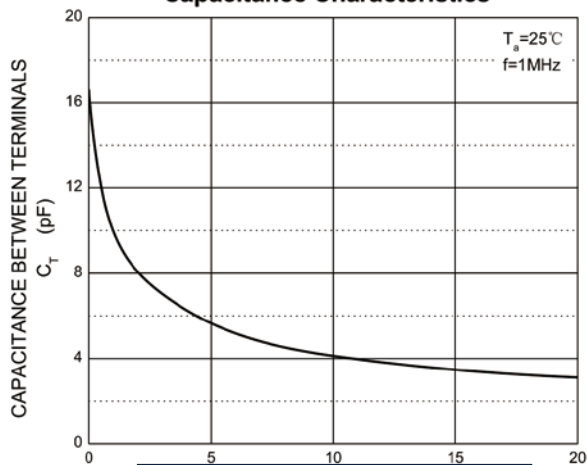


Typical Characteristics

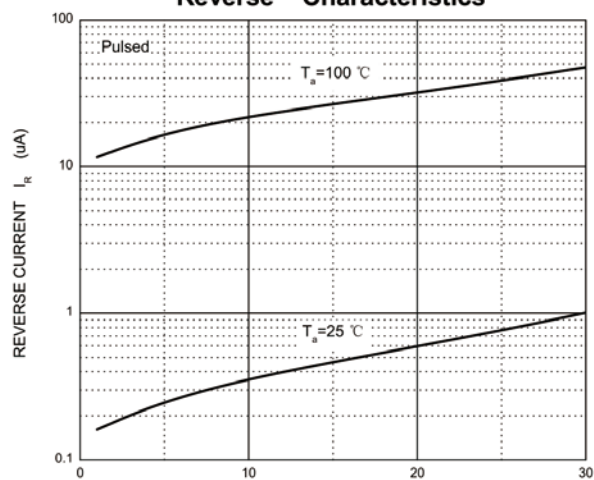
Forward Characteristics

FORWARD VOLTAGE V_F (mV)

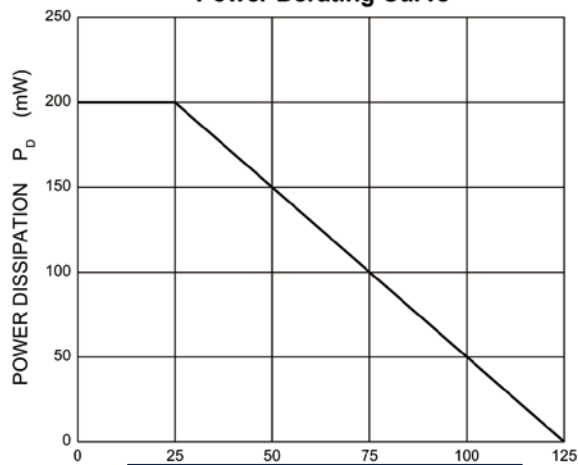
Capacitance Characteristics

REVERSE VOLTAGE V_R (V)

Reverse Characteristics

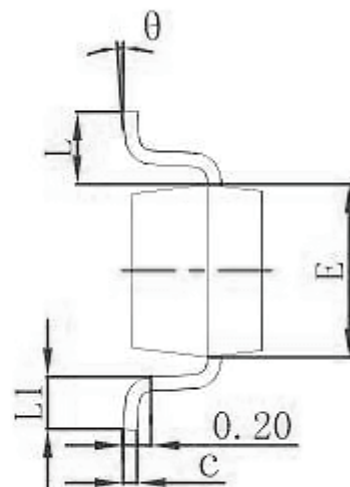
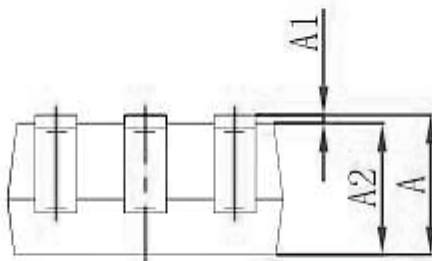
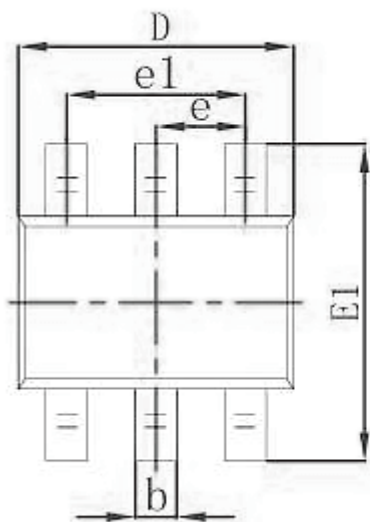
REVERSE VOLTAGE V_R (V)

Power Derating Curve

AMBIENT TEMPERATURE T_a (°C)



SOT-363 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°