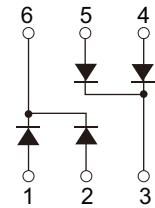
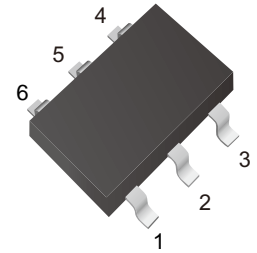


Switching Diode

Features

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- Lead free in comply with EU RoHS 2011/65/EU directives



Ordering Information

Part Number	Marking	Shipping	Reel
LTKJ363A-TR3	KJA	3000PCS Tape&Reel	7 inches
LTKJ363A-TR10	KJA	10000PCS Tape&Reel	13 inches

Maximum Ratings @T_a=25°C

Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Working Peak Reverse Voltage	V _{RWM}	100	
DC Blocking Voltage	V _R	75	
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	150	mA
Non-Repetitive Peak Forward Surge Current @t=8 .3ms	I _{FSM}	2	A
Power Dissipation	P _D	200	mW
Thermal Resistance From Junction to Ambient	R _{θJA}	625	°C/W
Operating Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55~+150	°C

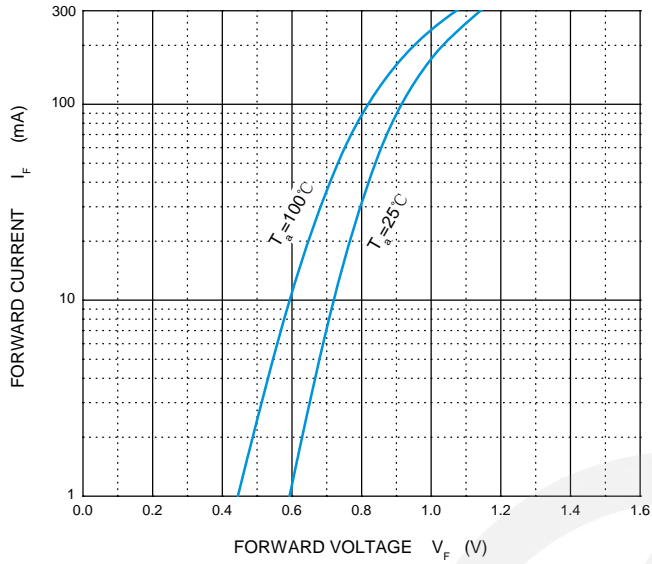
Electrical Characteristics (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	V _(BR)	I _R =2.5μA	75			V
Reverse current	I _R	V _R =75V V _R =20V			2.5 0.025	μA
Forward voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	
		I _F =50mA			1	
		I _F =150mA			1.25	
Total capacitance	C _{tot}	V _R =0, f=1MHz			2	pF
Reverse recovery time	t _{rr}	I _F = I _R =10mA, I _{tr} =0.1×I _R , R _L =100Ω			4	ns

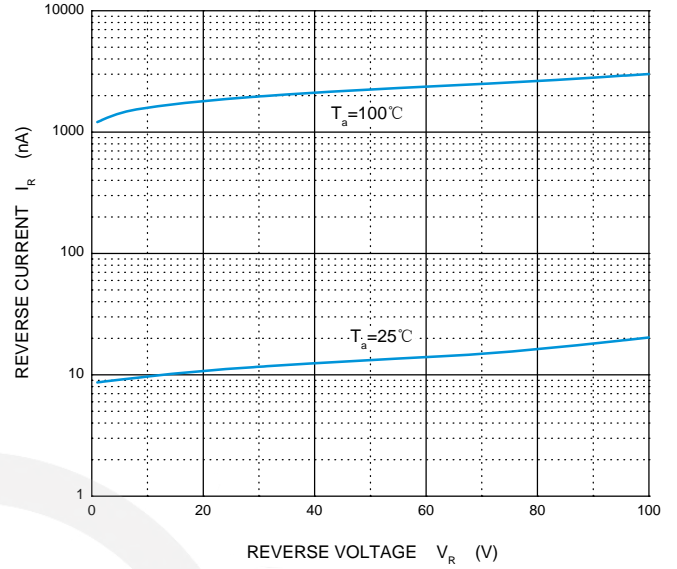


Characteristics Curves

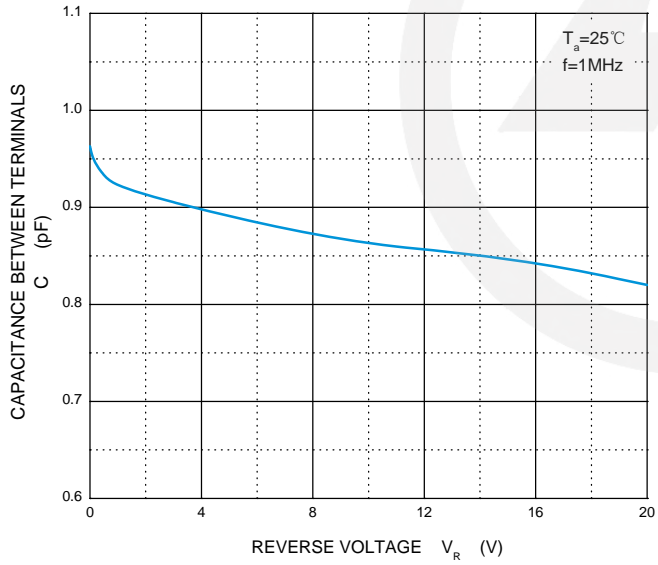
Forward Characteristics



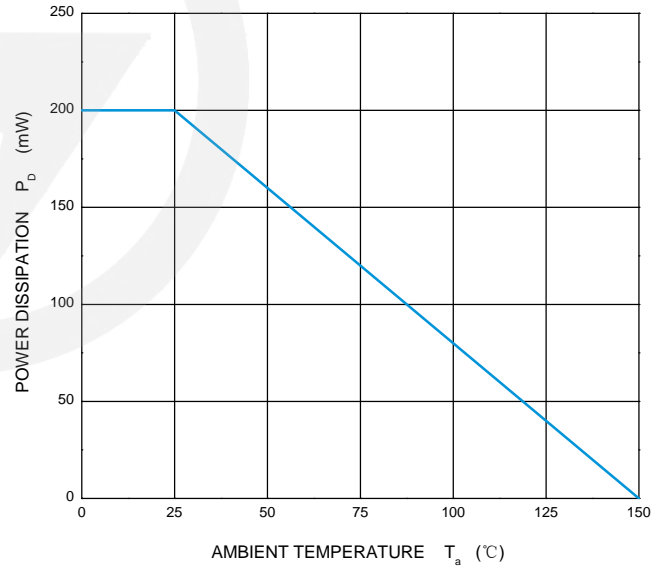
Reverse Characteristics



Capacitance Characteristics

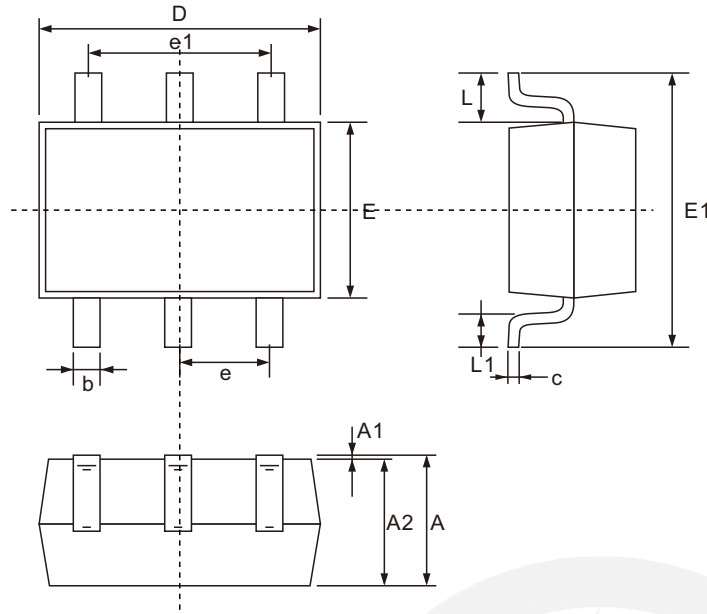


Power Derating Curve





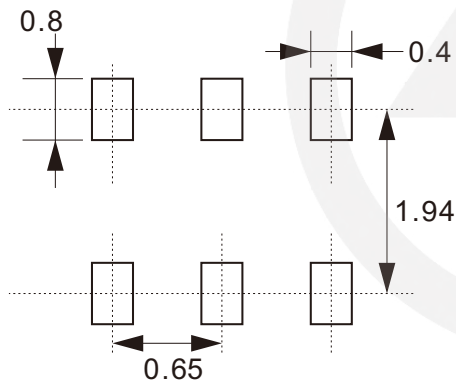
SOT-363 Package Outline



Unit: mm

SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.150	0.350
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 TYP.	
L1	0.260	0.460
θ	0°	8°

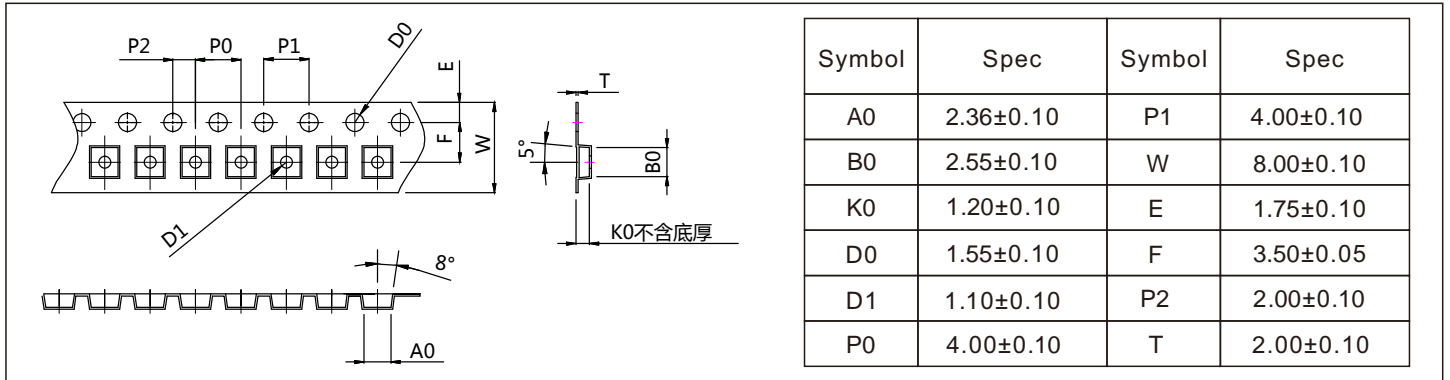
SOT-363 Suggested Pad Layout



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

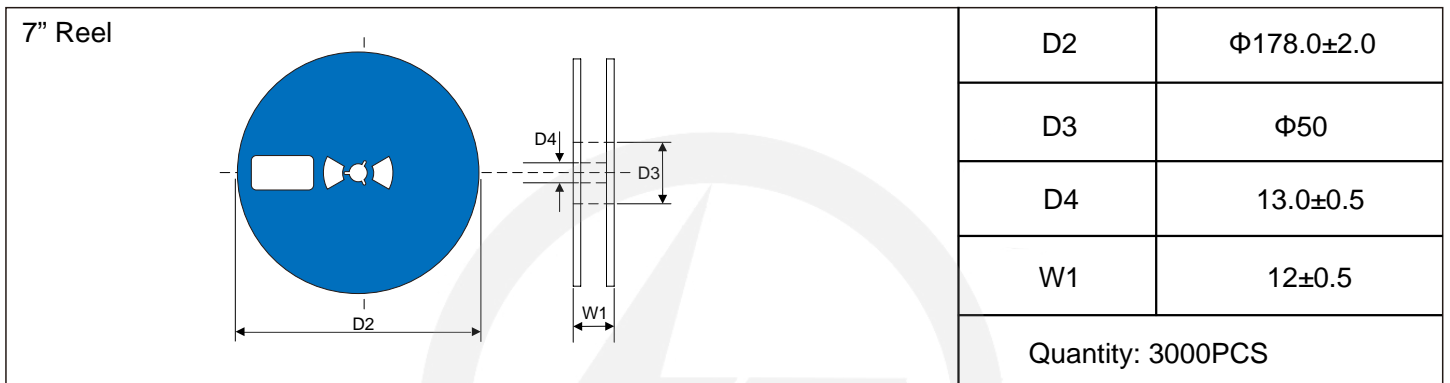
Carrier Tape Dimensions

Unit : mm



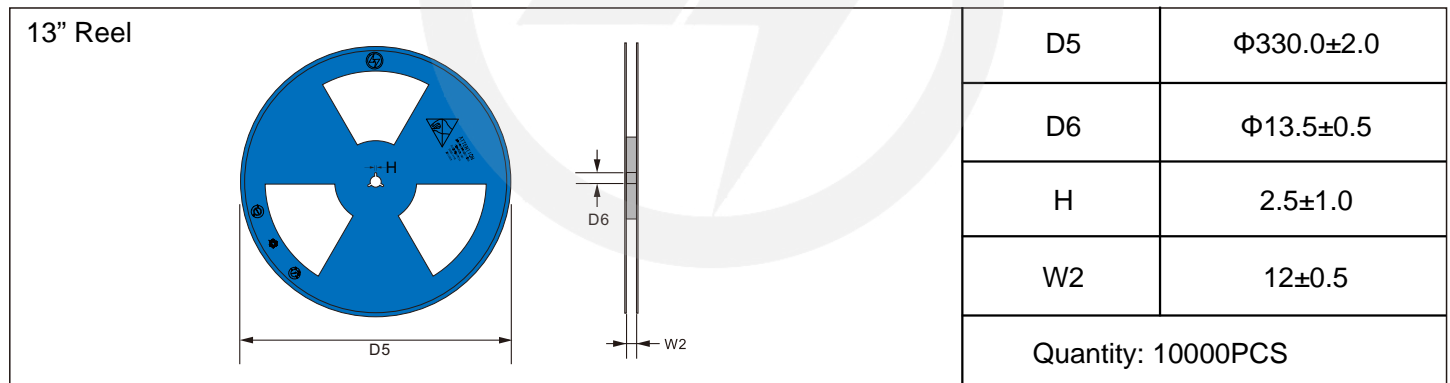
Reel Dimensions

Unit : mm

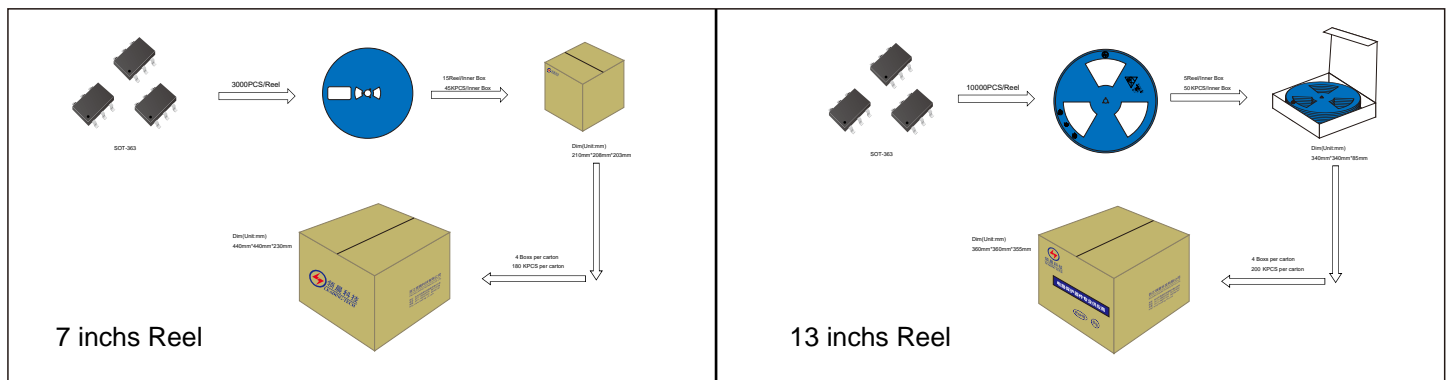


Reel Dimensions

Unit : mm



Packaging





Recommended Soldering Conditions



Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat	
-Temperature Min ($T_{S\ min}$)	150°C
-Temperature Max ($T_{S\ max}$)	200°C
-Time (min to max) (t_s)	60-180 seconds
$T_{S\ max}$ to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
-Temperature (T_L)	217°C
-Time (t_L)	60-150 seconds
Peak Temperature (T_P)	260°C
Time within 5°C of actual Peak Temperature (t_p)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

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Version Update Information

Series NO.	Enactment/Revision Date	Effective Date	Version	Revision content	Revision Reason	Revision Person	Note
01	2025.04.16	2025.04.16	3.0	New File	/	Ding	