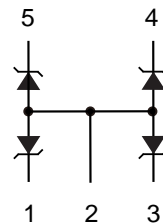
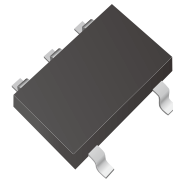


## ESD Protection Diodes Array

### Features

- IEC 61000-4-2 (ESD)
  - ±30kV Contact Discharge
  - ±30kV Air Discharge
- 150W Peak pulse Power (8/20us)
- IEC 61000-4-4 EFT Protection
  - 40A (5/50ns)
- Protects four undirectional lines
- Low clamping voltage
- Low leakage current
- Lead free in comply with EU RoHS 2011/65/EU directives



### MechanicalData

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants
- Notebooks / Desktops / Servers
- Portable Instrumentation
- Peripherals & Pagers
- Material: Halogen free
- Flammability Rating: UL94V-0

### Ordering Information

Part Number	Marking	Shipping	Reel
LTE35T05A04U-TR3	.W.E/S	3000PCS Tape&Reel	7 inches

### Absolute Maximum rating

Over operating free-air temperature range (unless otherwise noted)

Parameters	Symbol	Min	Max	Unit
Peak pulse power (tp=8/20us)@25°C	P <sub>pk</sub>		150	W
Peak pulse current (tp=8/20us)@25°C	I <sub>pp</sub>		8	A
ESD (IEC61000-4-2 air discharge) @25°C	V <sub>ESD</sub>		±30	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V <sub>ESD</sub>		±30	kV
Junction temperature	T <sub>J</sub>		125	°C
Operating temperature	T <sub>OP</sub>	-40	125	°C
Storage temperature	T <sub>STG</sub>	-55	150	°C
Lead temperature	T <sub>L</sub>		260	°C

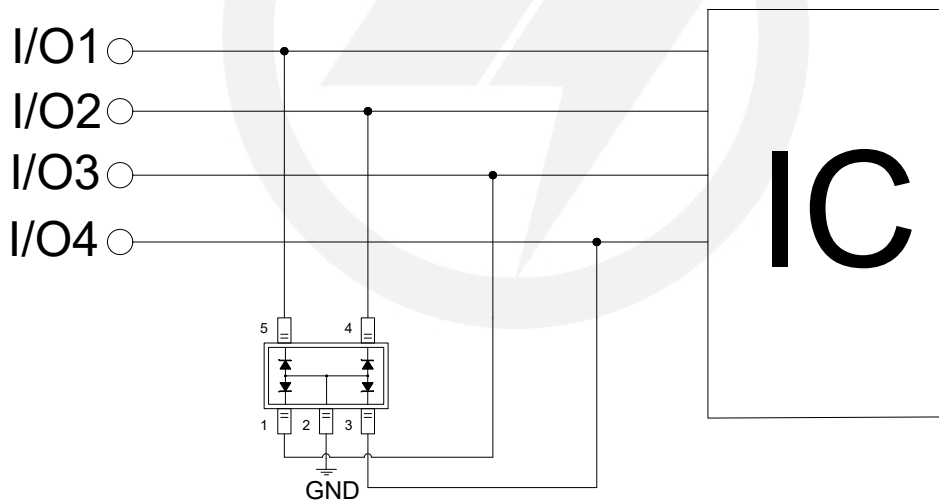
## Electrical Characteristics

At  $T_A = 25^\circ\text{C}$  unless otherwise noted

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Stand-off Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1\text{mA}$	6			V
Reverse Leakage Current	$I_R$	$V_{RWM}=5\text{V}$			1	$\mu\text{A}$
Clamping Voltage	$V_C$	$I_{PP}=1\text{A}; t_p=8/20\mu\text{s}$		9.5		V
Clamping Voltage	$V_C$	$I_{PP}=8\text{A}; t_p=8/20\mu\text{s}$		12		V
Junction Capacitance	$C_J$	I/O to GND; $V_R=0\text{V}; f=1\text{MHz}$		80		pF

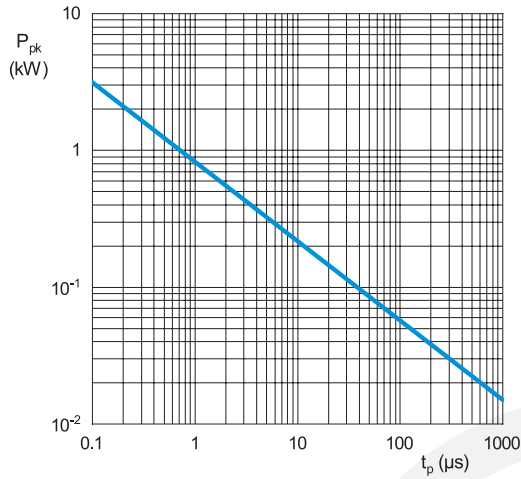
## Typical Application

Typical Interface Application

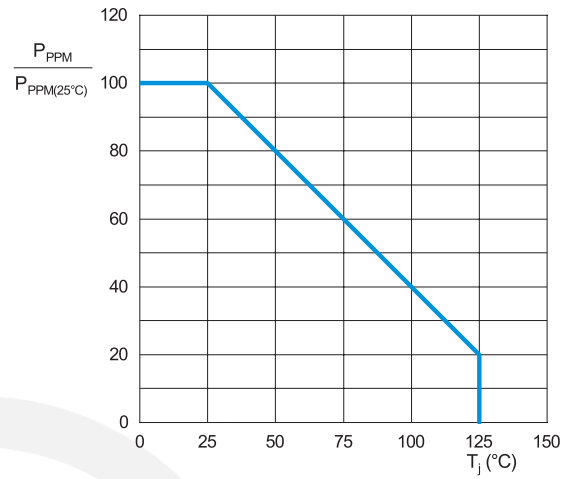


**Characteristic Curves** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

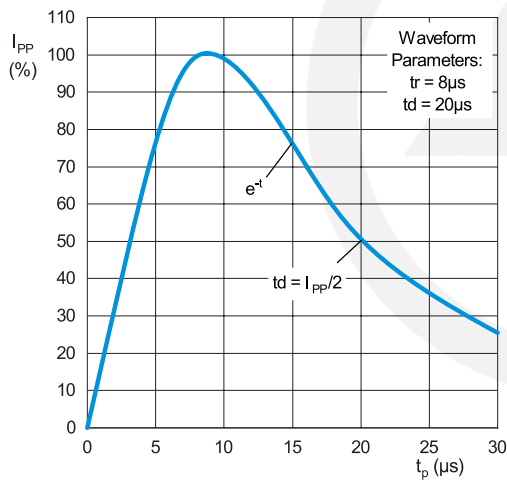
**Fig.1 Pulse rating curve**



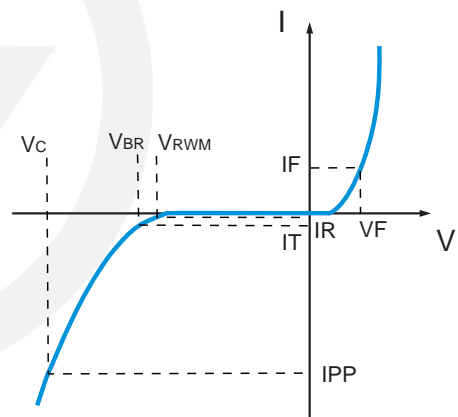
**Fig.2 Peak pulse power derating curve**



**Fig.3 Pulse waveform**

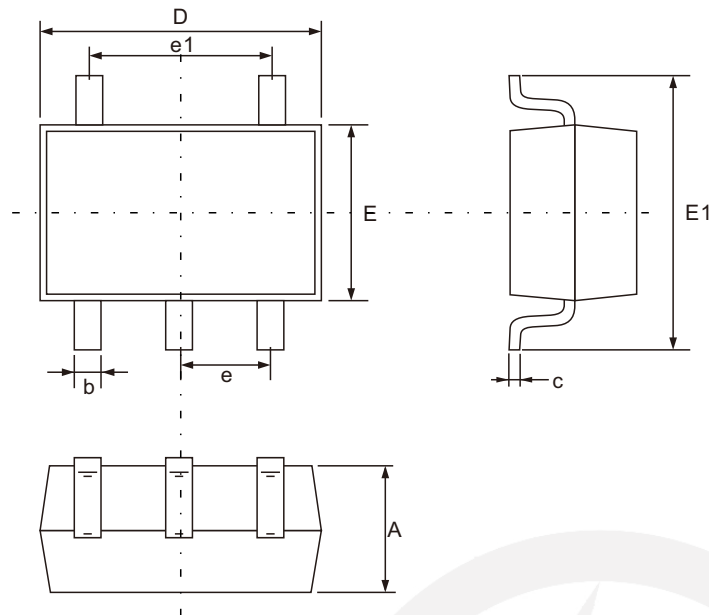


**Fig.4 Parameters**





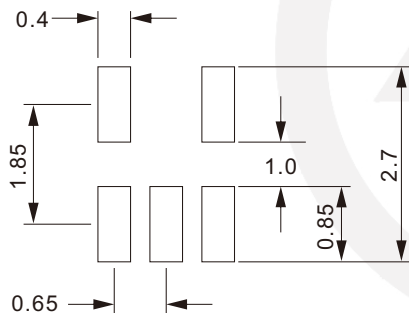
### SOT-353 Package Outline



Unit: mm

SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.700	1.100
b	0.100	0.400
c	0.080	0.260
D	1.800	2.200
E	1.150	1.350
E1	1.800	2.400
e	0.650TYP.	
e1	1.200	1.400

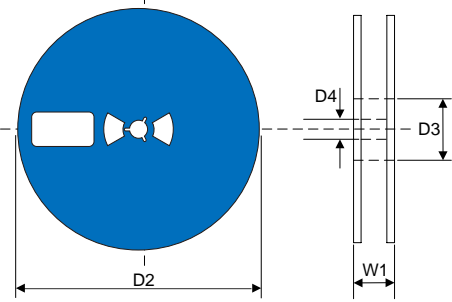
### SOT-353 Suggested Pad Layout



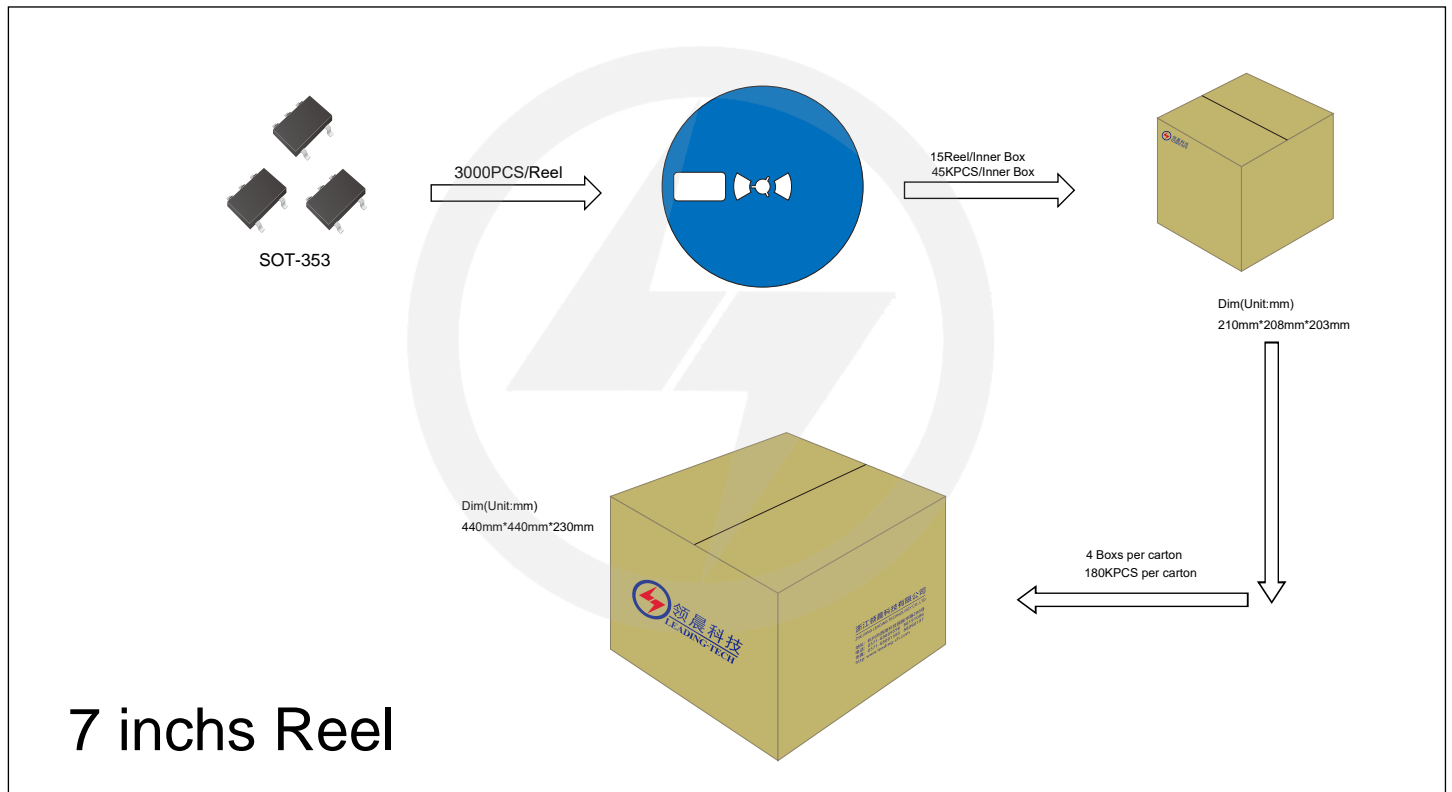
- Note:
1. Controlling dimension: in millimeters.
  2. General tolerance:  $\pm 0.05\text{mm}$
  3. The pad layout is for reference purpose only.

## Reel Dimensions

Unit : mm

<p>7" Reel</p> 	D2	$\Phi 178.0 \pm 2.0$
	D3	$\Phi 50$
	D4	$13.0 \pm 0.5$
	W1	$12 \pm 0.5$
	Quantity: 3000PCS	

## 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	2024.5.12	2024.5.12	3.0	New File	/	Ding	