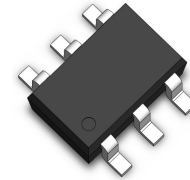
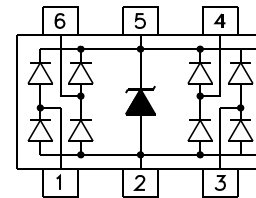


SE05T4D14GD
Features

- ◆ Protects four I/O lines
- ◆ Low clamping voltage
- ◆ Working voltage: 5V
- ◆ Low leakage current

SOT-363

Applications

- ◆ USB OTG
- ◆ Video Graphics Cards
- ◆ High-Definition Multimedia Interface (HDMI)
- ◆ 10/100/1000 Ethernet
- ◆ IEEE 1394 Fire wire Ports

Functional Diagram

Mechanical Characteristics

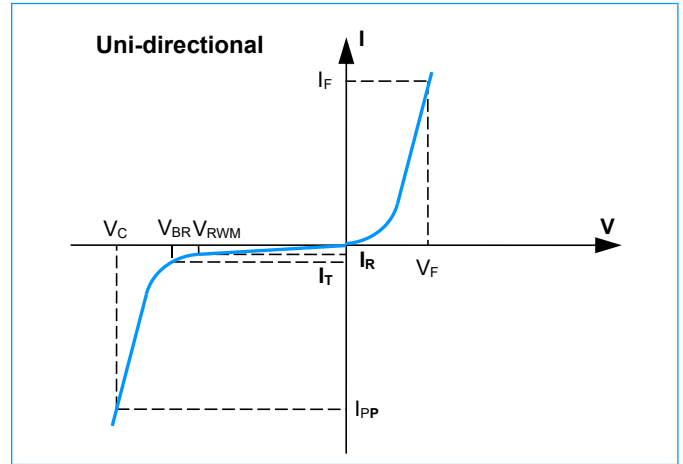
- ◆ JEDEC SOT-363 Package
- ◆ Molding Compound Flammability Rating: UL 94V-0
- ◆ Quantity Per Reel: 3,000pcs
- ◆ Reel Size: 7 inch

Absolute Maximum Ratings

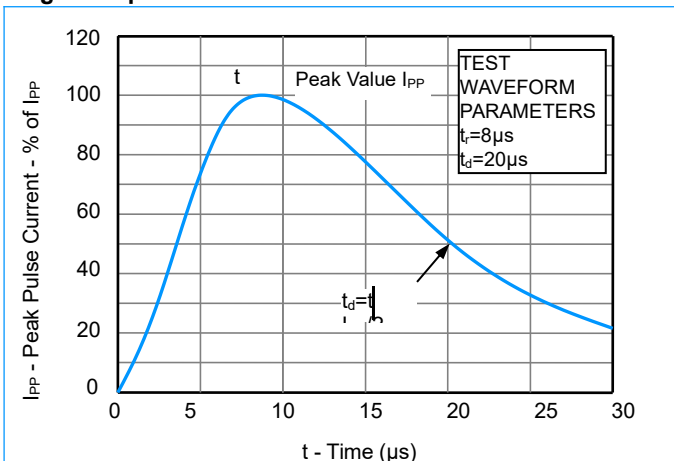
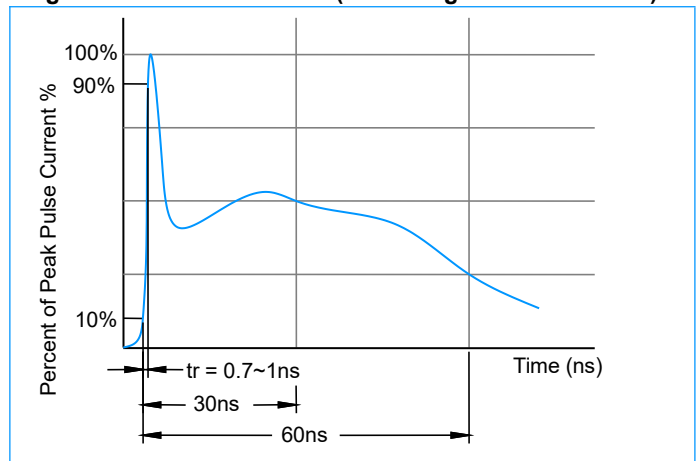
Symbol	Parameter	Value	Units
V_{ESD}	Air Discharge	±20	kV
	Contact Discharge	±15	
T_{STG}	Storage Temperature Range	-55 to +150	°C
T_J	Operating Temperature Range	-55 to +125	°C

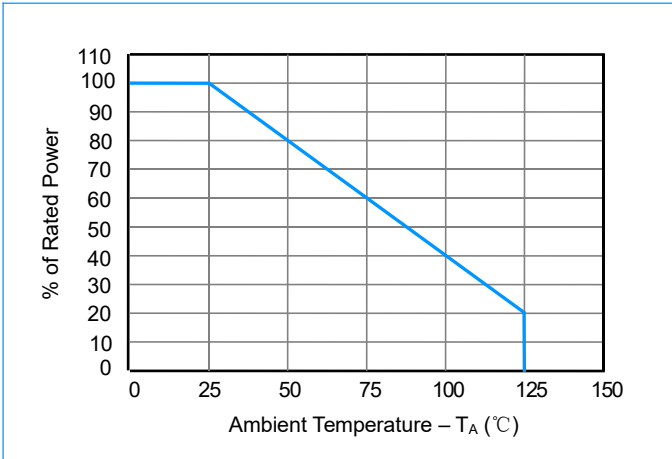
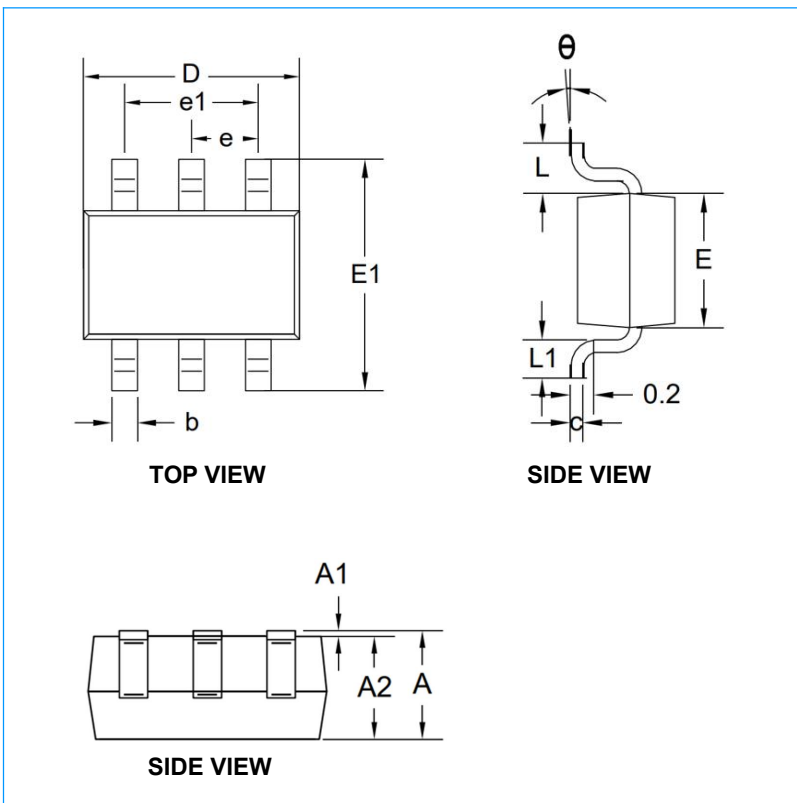
SE05T4D14GD
I-V Curve Characteristics

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_F	Forward Current
V_F	Forward Voltage @ I_F


Electrical Characteristics ($T_A = 25^\circ\text{C}$, unless otherwise noted)

Symbol	Test Conditions	Min.	Typ.	Max.	Units
V_{RWM}	pin 5 to pin 2, $T = 25^\circ\text{C}$	--	--	5.0	V
V_{BR}	$I_T = 1\text{mA}$, pin 5 to pin 2	6.0	--	--	V
I_R	$V_{RWM} = 5.0\text{V}$, $T = 25^\circ\text{C}$, pin 5 to pin 2	--	--	0.1	μA
V_F	$I_T = 10\text{mA}$	--	0.8	--	V
V_C	$I_{PP} = 3\text{A}$, $t_p = 8/20\mu\text{s}$, I/O pin to GND	--	11.0	--	V
C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$, I/O pin to GND	--	0.6	--	pF
C_J	$V_R = 0\text{V}$, $f = 1\text{MHz}$, Between I/O pins	--	0.3	--	pF

Characteristic Curves
Fig1. 8/20 μs Pulse Waveform

Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)


SE05T4D14GD
Characteristic Curves (Continue)
Fig3. Power Derating Curve

SOT-363 Package Outline & Dimensions


Symbol	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	0.85	0.95	1.10	0.034	0.038	0.044
A1	0.00	0.05	0.10	0.000	0.002	0.004
A2	0.85	0.95	1.00	0.034	0.038	0.040
b	0.15	0.25	0.35	0.006	0.010	0.014
c	0.08	0.12	0.15	0.003	0.005	0.006
D	2.00	2.10	2.20	0.080	0.084	0.088
E	1.15	1.25	1.35	0.046	0.050	0.054
E1	2.10	2.25	2.45	0.084	0.090	0.098
e	0.65 TYP			0.026 TYP		
e1	1.20	1.30	1.40	0.048	0.052	0.056
L1	0.26	0.36	0.46	0.010	0.014	0.018
L	0.52 REF			0.020 REF		
θ	0°	4°	8°	0°	4°	8°

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