

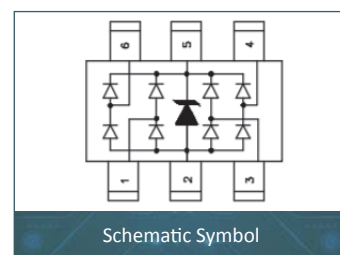
1. FEATURES

- 300W Peak Pulse Power ($t_p=8/20\mu s$)
- Protects Four Unidirectional I/O Lines
- SOT-23-6 package
- Working voltages : 3.3 V
- Low leakage current



2. APPLICATIONS

- Ethernet Interface
- Switchin Systems
- Access Equipment
- Central Office Equipment
- Customer Premise Equipment
- Microcontroller Input Protection
- MagJacks/Integrated Magnetics



3. IEC COMPATIBILITY

- IEC61000-4-2 (ESD) $\pm 30kV$ (air), $\pm 30kV$ (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)

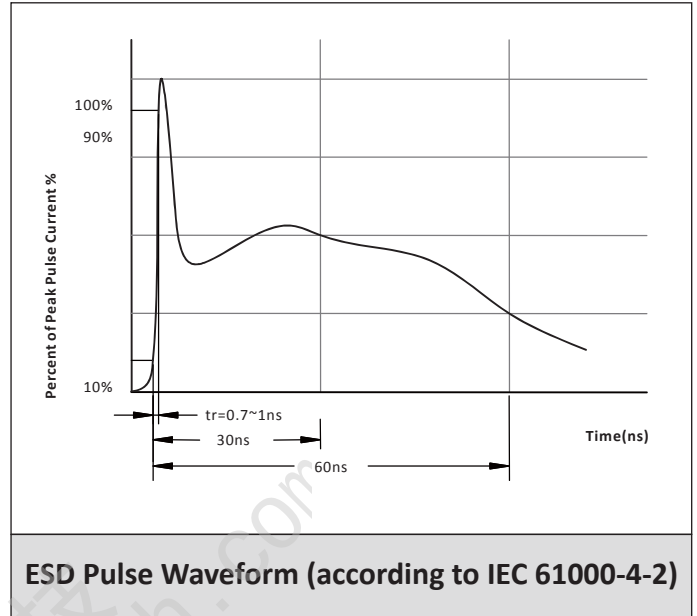
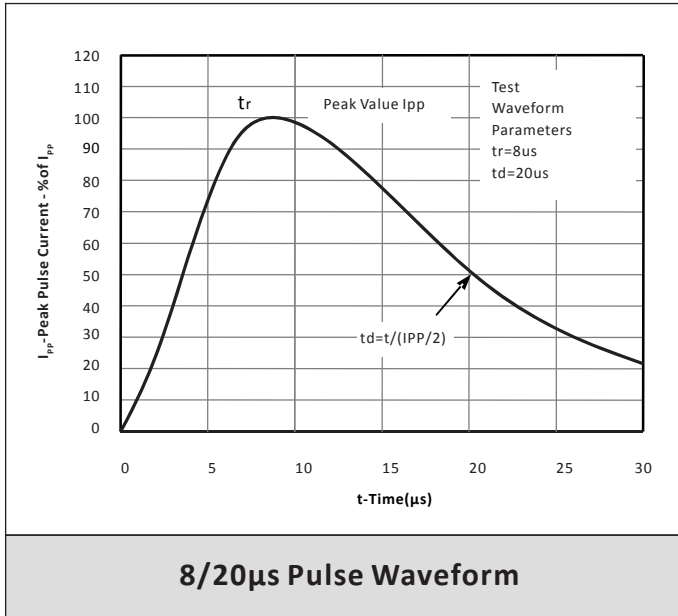
4. THERMAL CONSIDERATIONS

Symbol	Parameter	Value	Unit
P_{PP}	Peak Pulse Power ($t_p=8/20\mu s$ waveform)	300	Watts
T_J	Operating Temperature Range	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature Range	-55 to +150	$^{\circ}C$

5. ELECTRICAL CHARACTERISTICS

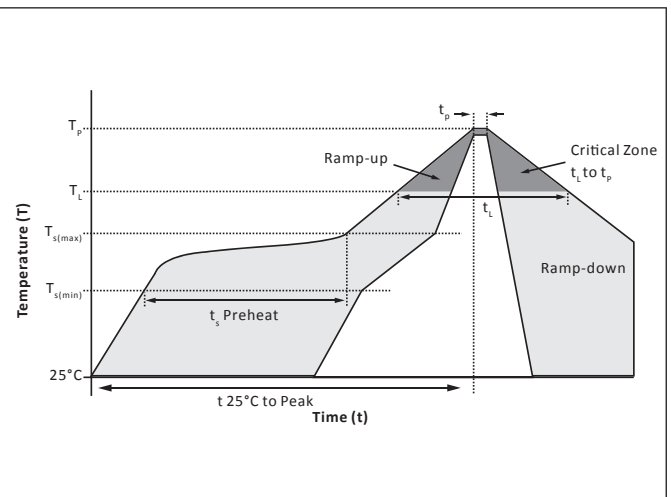
Part Number	Device Marking Code	V_{RWM}	V_{BR}	I_T	$V_C@1A$	V_C		I_R	C_T I/O-GND	C_T I/O-I/O
		Max.(V)	Min.(V)	(mA)	Max.(V)	Max.(V)	@A	Max.(uA)	Typ.(pF)	Typ.(pF)
SE26T30U3.3LD1	SRV33	3.3	3.5	1.0	6.0	15.0	22.0	1.0	3.0	1.5

6. CHARACTERISTIC CURVES



7. SOLDERING PARAMETERS

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Time (min to max) (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 (T_p)		8 minutes max.
Do not exceed		260°C



8. SOT-23-6 PACKAGE INFORMATION

DIM	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.80	3.05	0.110	0.120
B	1.50	1.75	0.059	0.070
C	0.90	1.30	0.036	0.051
D	0.30	0.40	0.012	0.016
E	0.85	1.05	0.033	0.040
G	0.90	1.45	0.036	0.057
J	0.09	0.20	0.003	0.008
K	2.60	3.00	0.102	0.118
L	0.0	0.15	0.0	0.006
M	0.30	0.60	0.012	0.024

9. RECOMMENDED PAD LAYOUT DIMENSIONS

DIM	Millimeters	Inches
	Nominal	Nominal
A	0.70	0.028
B	1.90	0.074
C	0.95	0.037
D	2.40	0.094
E	1.00	0.039

10. ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SE26T30U3.3LD1	SOT-23-6	3000PCS	7"