

APPLICATIONS

- ✧ Cellular Handsets & Accessories.
- ✧ Cordless Phones.
- ✧ Personal Digital Assistants (PDA's).
- ✧ Portable Instrumentation.
- ✧ Notebooks & Handhelds.
- ✧ Digital Cameras.
- ✧ MP3 Players.

IEC COMPATIBILITY

- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

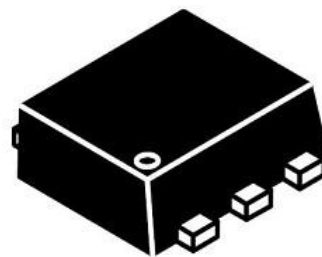
FEATURES

- ✧ 100 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects up to four I/O lines.
- ✧ Ultra-small SC-89 package ($1.6 \times 1.6 \times 0.55\text{mm}$).
requires less than 1.6mm^2 of PCB area.
- ✧ Working voltages : 5.0V.
- ✧ Low leakage current.

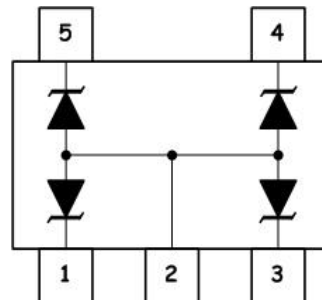
MECHANICAL CHARACTERISTICS

- ✧ SOT-553 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 3 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

SOT-553



PIN CONFIGURATION

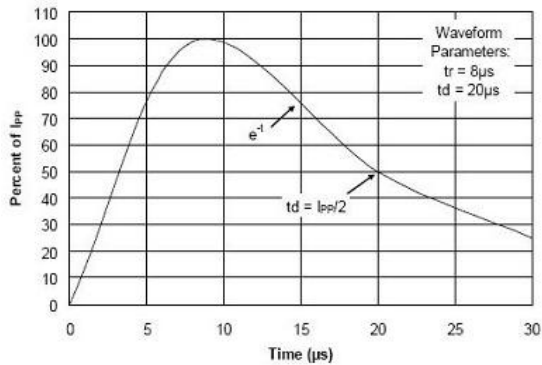
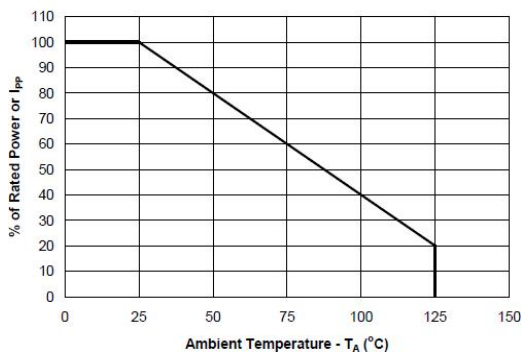
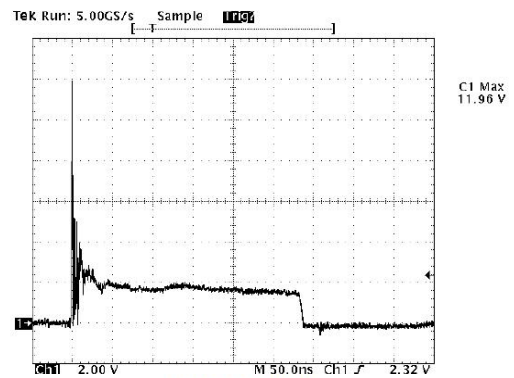
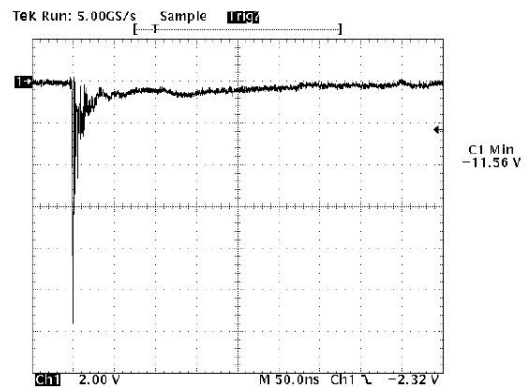


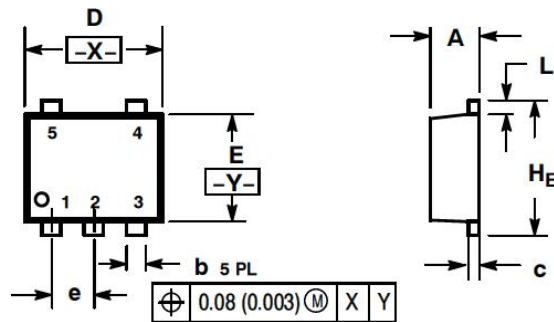
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	100	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

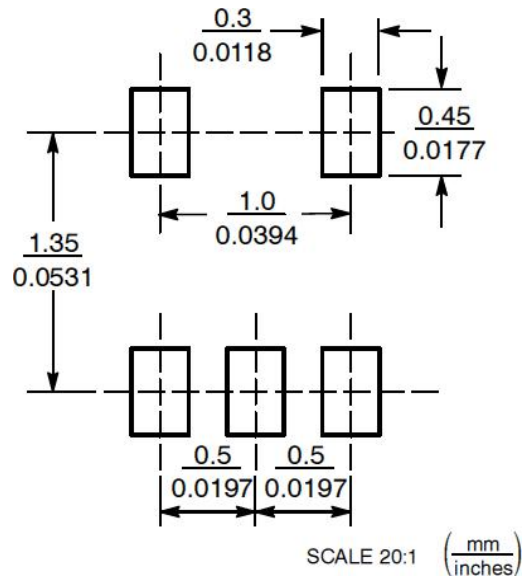
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (max.)	V _C (max.) (@A)	I _R (μA) (max.)	C _T (pF) (typ.)
ULC0504T5	U7	5	6	1	9.8	17	2	1

Pulse Waveform

Power Derating Curve

**ESD Clamping
(8kV Contact per IEC 61000-4-2)**

**ESD Clamping
(-8kV Contact per IEC 61000-4-2)**


SOT-553 PACKAGE OUTLINE & DIMENSIONS


DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.50	0.55	0.60	0.020	0.022	0.024
b	0.17	0.22	0.27	0.007	0.009	0.011
c	0.08	0.13	0.18	0.003	0.005	0.007
D	1.50	1.60	1.70	0.059	0.063	0.067
E	1.10	1.20	1.30	0.043	0.047	0.051
e	0.50 BSC			0.020 BSC		
L	0.10	0.20	0.30	0.004	0.008	0.012
HE	1.50	1.60	1.70	0.059	0.063	0.067

*** SOLDERING FOOTPRINT**


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