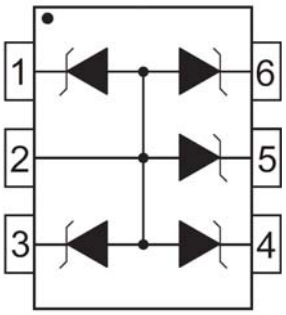
Feature

- 100W peak pulse power per line (t_P = 8/20μS)
- SC-70-6L package
- Protect 4 lines bidirectional and 5 lines unidirectional
- Monolithic structure
- Working voltage: 12V
- Low clamping voltage
- ESD protection > 25KV
- Low leakage current
- RoHS compliant
- Transient protection for data lines to IEC 61000-4-2(ESD) ±15KV(air), ±8KV(contact); IEC 61000-4-4 (EFT) 40A (5/50ns)



Applications

- Cellular phones
- MP3 players
- Notebook
- PDAs
- Digital cameras
- Cellular phone base stations

Electrical characteristics per line@25℃(unless otherwise specified) note1

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse stand-off voltage	V_{RWM}				12	V
Reverse Breakdown voltage	V_{BR}	I_t = 1mA	13.3			V
Reverse Leakage Current	I_R	V_{RWM} = 12V T=25℃			1	μA
Clamping Voltage	V_C	I_{PP} =4.2A t_P = 8/20μS			23.8	V
Junction Capacitance	C_j	V_R=0V f = 1MHz (Note 1)		30		pF

- Note1: Pin 1, 3, 4, 5 or 6 to Pin 2

Absolute maximum rating @25℃ note1

Rating	Symbol	Value	Units
Peak Pulse Power (t_p=8/20μs)	P_{pp}	100	W
Forward voltage@1A, 8/20μs	V_F	1.5	V
Operating Temperature	T_J	-55 to +150	℃
Storage Temperature	T_{STG}	-55 to +150	℃

Typical Characteristics

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

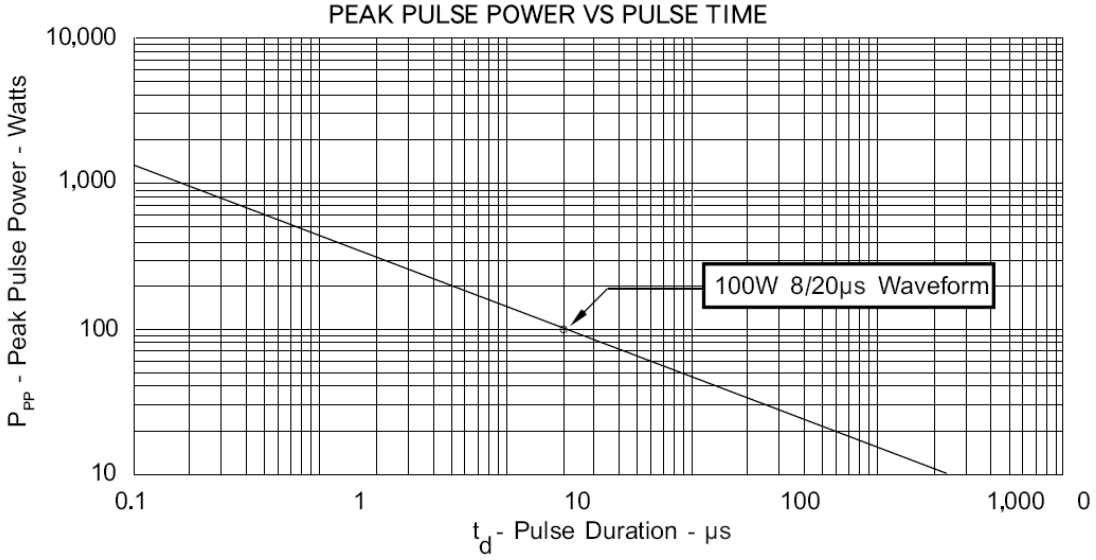


FIGURE 2
PULSE WAVE FORM

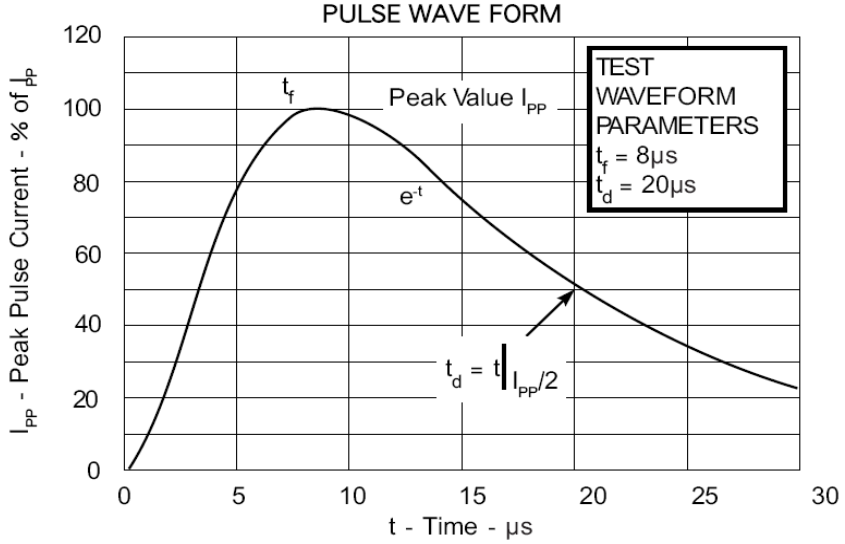


FIGURE 3
POWER DERATING CURVE

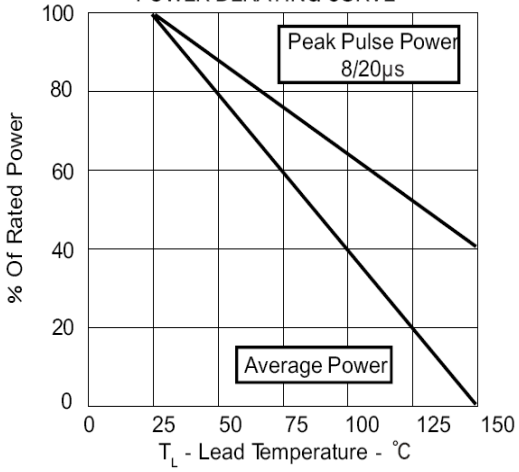
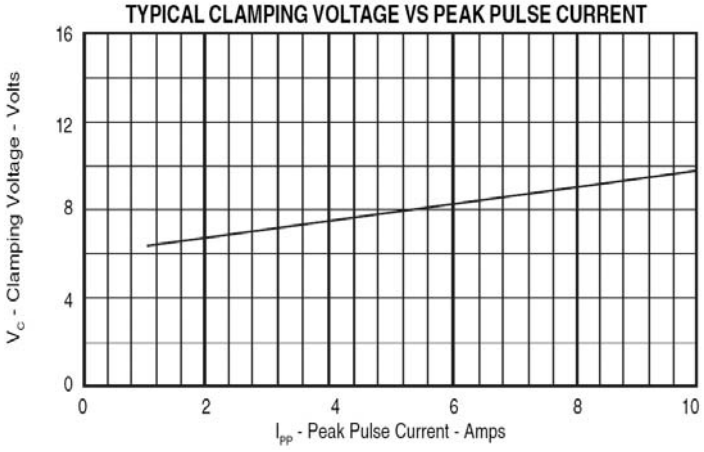
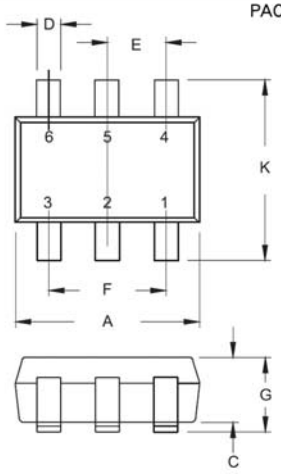


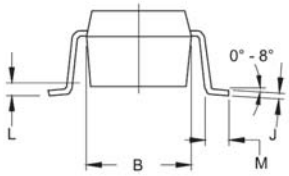
FIGURE 4
TYPICAL CLAMPING VOLTAGE VS PEAK PULSE CURRENT



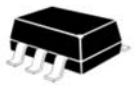
Product dimension and pad size

PACKAGE OUTLINE





SC70-6L

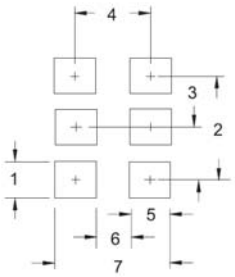


PACKAGE DIMENSIONS

DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	1.90	2.15	0.075	0.085
B	1.15	1.35	0.045	0.053
C	0.80	1.00	0.031	0.039
D	0.15	0.30	0.006	0.012
E	0.65 BSC	-	0.026 BSC	-
F	1.30 BSC	-	0.051 BSC	-
G	0.80	1.10	0.030	0.043
J	0.08	0.25	0.003	0.010
K	2.00	2.20	0.079	0.087
L	0	0.10	0	0.004
M	0.26	0.46	0.010	0.018

MOUNTING PAD

DIM	TYPICAL Millimeters	TYPICAL Inches
1	0.50	0.020
2	1.30	0.051
3	0.65	0.026
4	1.72	0.068
5	0.60	0.024
6	1.11	0.044
7	2.33	0.092



NOTES

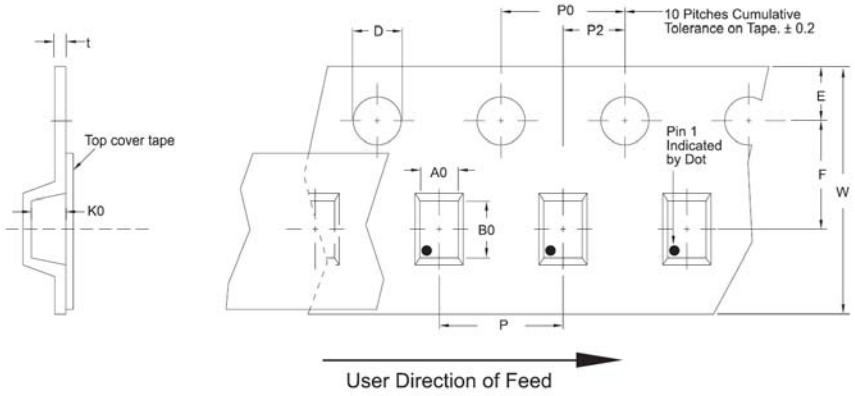
1. Dimensioning and tolerances per ANSI Y14.5M, 1985.
2. Controlling Dimension: Inches
3. Dimensions are exclusive of mold flash and metal burrs.

TAPE & REEL ORDERING NOMENCLATURE

1. Surface mount product is taped and reeled in accordance with EIA-481.
2. 7 Inch Reel - 3,000 pieces per 8mm tape.

Tape & Reel Specifications (Dimensions in millimeters)

Reel Dia.	Tape Width	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")	8mm	2.25 ± 0.10	2.34 ± 0.10	1.22 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ±0.30	4.00 ±0.10	2.00 ±0.05	4.00 ±0.10	0.25



Revision History

Revision	Date	Changes
1.0	2008-7-3	-