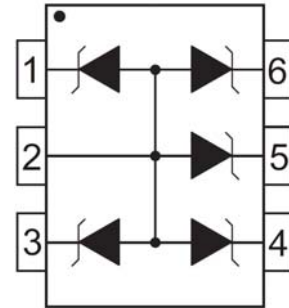


Feature

- 100W peak pulse power per line ($t_p = 8/20\mu S$)
- 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) $\pm 15KV$ (air), $\pm 8KV$ (contact); IEC 61000-4-4 (EFT) 40A (5/50ns)



Applications

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

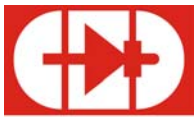
Electrical characteristics per line@25°C(unless otherwise specified) note1

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	$V_{RWM} = 12V T=25^\circ C$			1	μA
Clamping Voltage	V_C	$I_{PP} = 4.2A t_p = 8/20\mu S$			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°C note1

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



Typical Characteristics

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

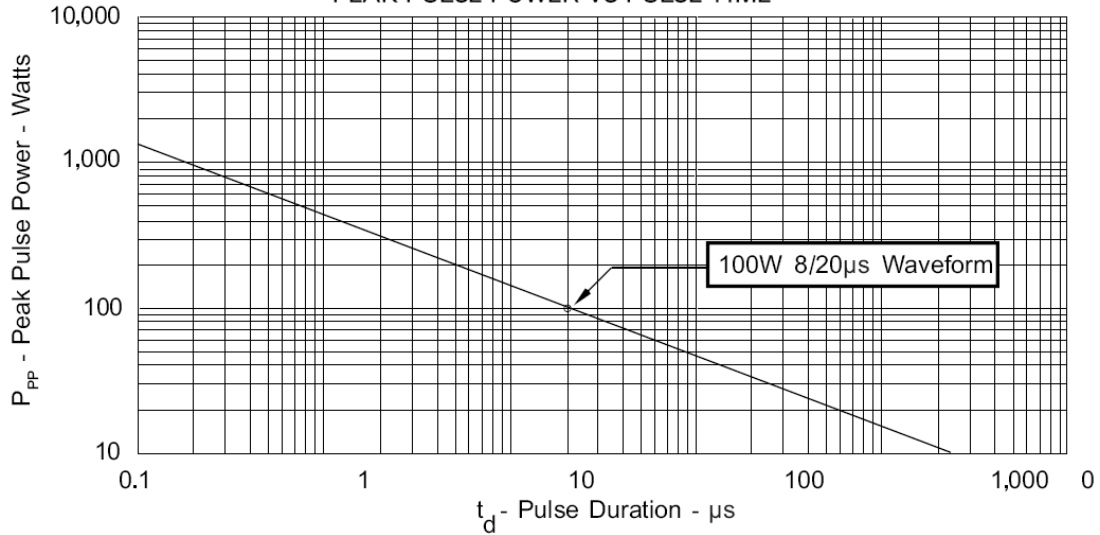


FIGURE 2
PULSE WAVE FORM

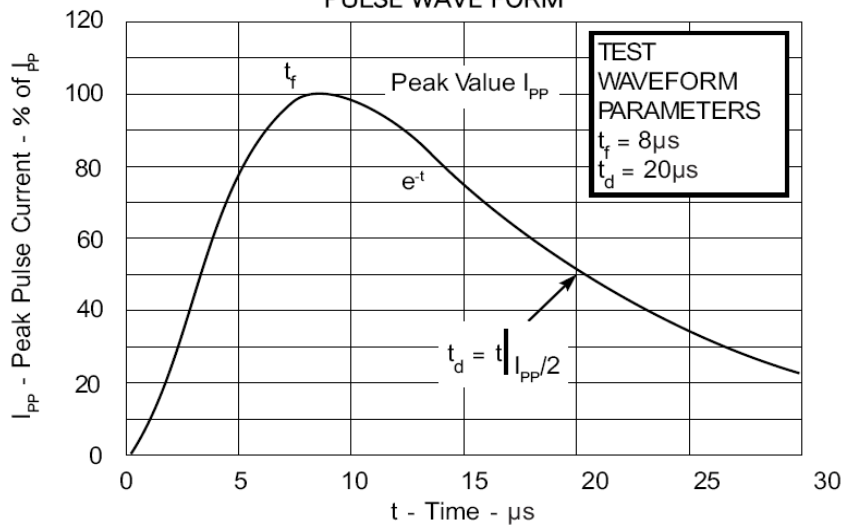


FIGURE 3
POWER DERATING CURVE

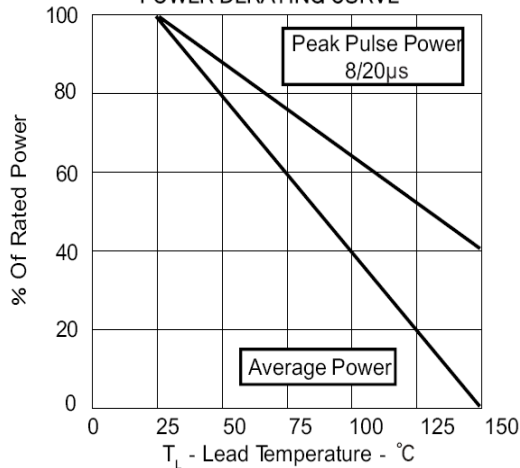
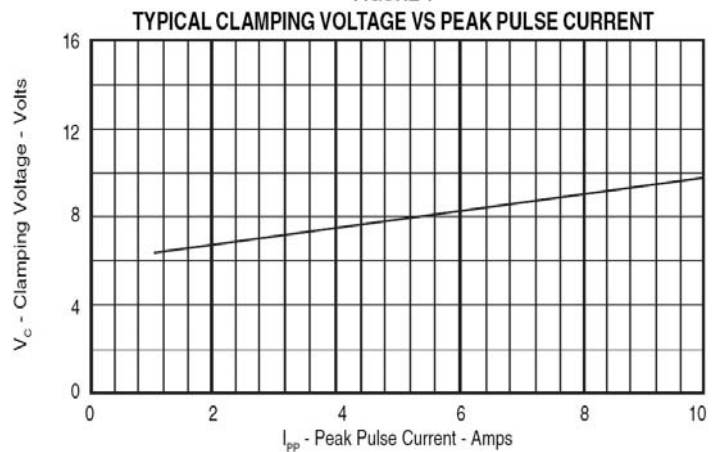
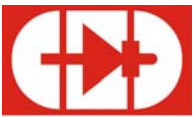


FIGURE 4



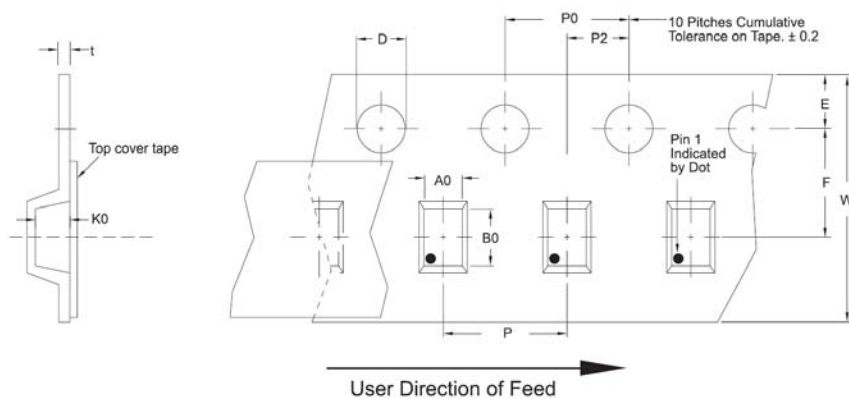


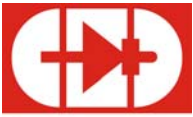
Product dimension and pad size

<p style="text-align: center;">PACKAGE OUTLINE</p>	<p style="text-align: center;">SC70-6L</p> <p style="text-align: center;">PACKAGE DIMENSIONS</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">DIM</th> <th colspan="2">MILLIMETERS</th> <th colspan="2">INCHES</th> </tr> <tr> <th>MIN</th> <th>MAX</th> <th>MIN</th> <th>MAX</th> </tr> </thead> <tbody> <tr><td>A</td><td>1.90</td><td>2.15</td><td>0.075</td><td>0.085</td></tr> <tr><td>B</td><td>1.15</td><td>1.35</td><td>0.045</td><td>0.053</td></tr> <tr><td>C</td><td>0.80</td><td>1.00</td><td>0.031</td><td>0.039</td></tr> <tr><td>D</td><td>0.15</td><td>0.30</td><td>0.006</td><td>0.012</td></tr> <tr><td>E</td><td>0.65 BSC</td><td>-</td><td>0.026 BSC</td><td>-</td></tr> <tr><td>F</td><td>1.30 BSC</td><td>-</td><td>0.051 BSC</td><td>-</td></tr> <tr><td>G</td><td>0.80</td><td>1.10</td><td>0.030</td><td>0.043</td></tr> <tr><td>J</td><td>0.08</td><td>0.25</td><td>0.003</td><td>0.010</td></tr> <tr><td>K</td><td>2.00</td><td>2.20</td><td>0.079</td><td>0.087</td></tr> <tr><td>L</td><td>0</td><td>0.10</td><td>0</td><td>0.004</td></tr> <tr><td>M</td><td>0.26</td><td>0.46</td><td>0.010</td><td>0.018</td></tr> </tbody> </table>	DIM	MILLIMETERS		INCHES		MIN	MAX	MIN	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
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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





GOOD-ARK

ESD Protector

SES Series

SES12VSC70-6

ROHS 

Revision History

Revision	Date	Changes
1.0	2008-7-3	-