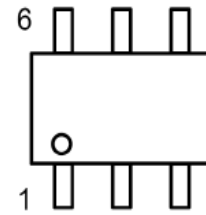


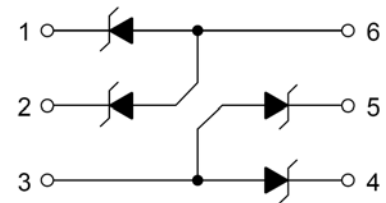
Description

This quad voltage suppressor is designed for applications requiring transient overvoltage protection capability. It is intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment, and other applications. Its quad junction common anode design protects four separate lines using only one package. These devices are ideal for situations where board space is at a premium.



Feature

- 75W peak pulse power per line ($t_p = 8/20\mu s$)
- SC-88 package
- Working voltage: 5V
- Low clamping voltage
- Low leakage current
- RoHS compliant
- Transient protection for data lines to IEC 61000-4-2(ESD) $\pm 15KV(\text{air})$, $\pm 8KV(\text{contact})$; IEC 61000-4-4 (EFT) 40A (5/50ns)

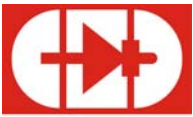


Electrical characteristics per line@25°C (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse stand-off voltage	V_{RWM}				5	V
Reverse Breakdown voltage	V_{BR}	$I_t = 1mA$	6.4	6.8	7.2	V
Reverse Leakage Current	I_R	$V_{RWM} = 5V$ $T = 25^\circ C$			1	μA
Forward Voltage	V_F	$I_F = 10mA$ $T = 25^\circ C$			1.25	V
Resistance	Z z	5mA		30		Ω
Resistance	Z zk	0.5mA		300		Ω
Junction Capacitance	C_j	$V_R = 0V$ $f = 1MHz$		40		pF

Absolute maximum rating @25°C

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu S$)	P_{pp}	75	W
Forward voltage@10mA	V_F	1.25	V
Operating Temperature	T_J	-55 to +150	$^\circ C$
Storage Temperature	T_{STG}	-55 to +150	$^\circ C$



Typical Characteristics

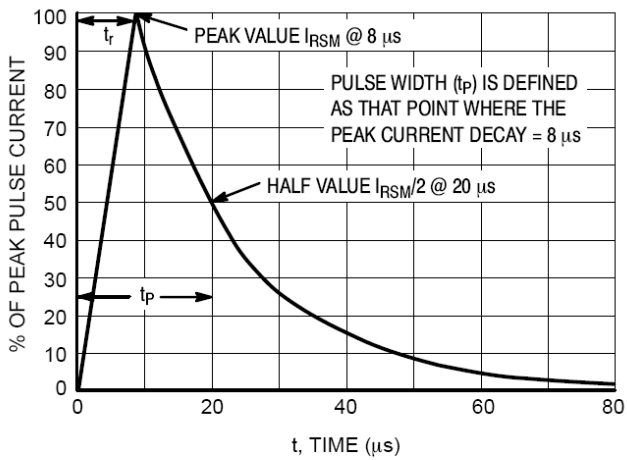


Figure 1. 8 x 20 μs Pulse Waveform

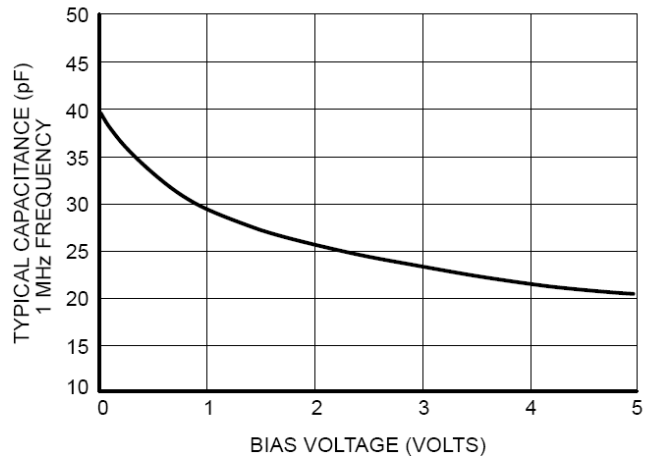


Figure 2. Capacitance

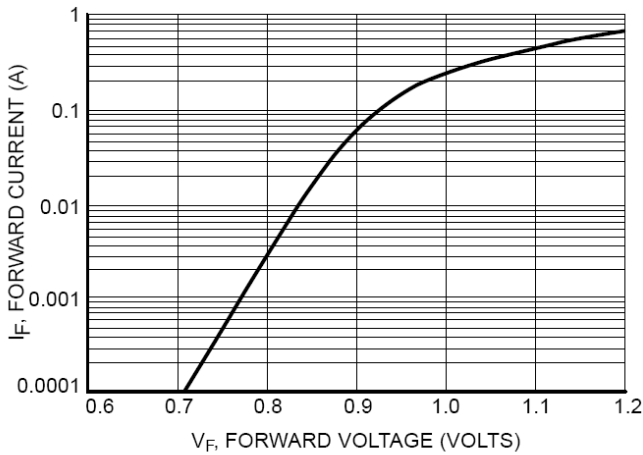


Figure 3. Forward Voltage

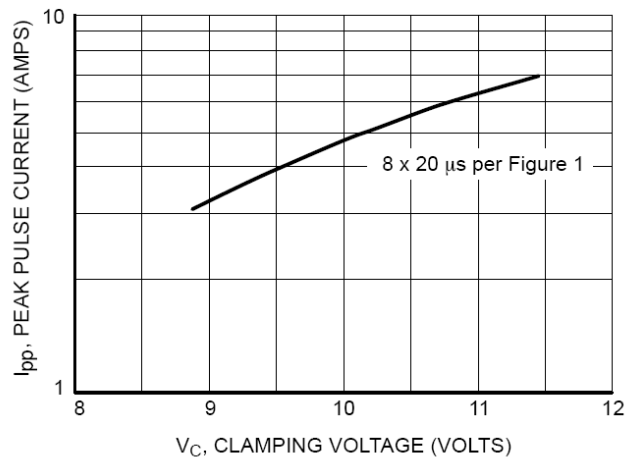
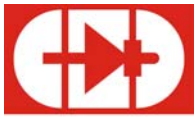
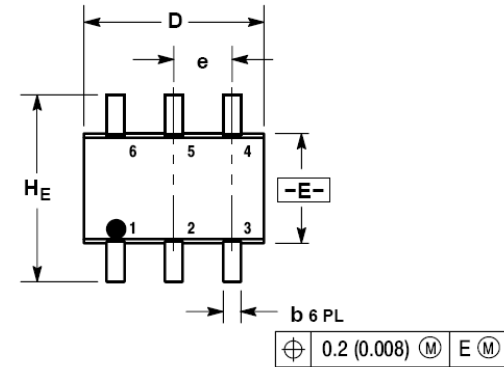


Figure 4. Clamping Voltage versus Peak Pulse Current

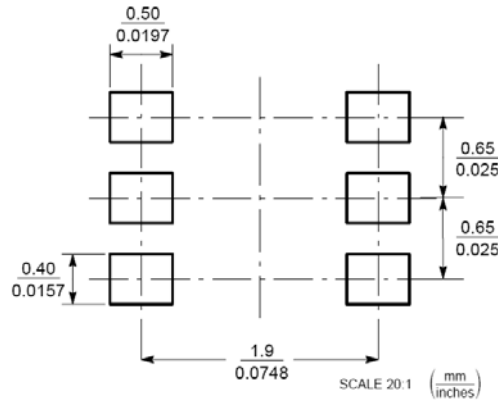
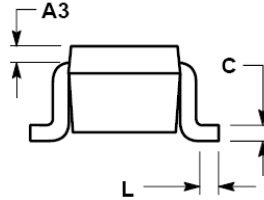
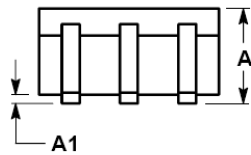


Product dimension and pad size

SC-88 Package



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.95	1.10	0.031	0.037	0.043
A1	0.00	0.05	0.10	0.000	0.002	0.004
A3	0.20 REF			0.008 REF		
b	0.10	0.21	0.30	0.004	0.008	0.012
C	0.10	0.14	0.25	0.004	0.005	0.010
D	1.80	2.00	2.20	0.070	0.078	0.086
E	1.15	1.25	1.35	0.045	0.049	0.053
e	0.65 BSC			0.026 BSC		
L	0.10	0.20	0.30	0.004	0.008	0.012
HE	2.00	2.10	2.20	0.078	0.082	0.086



Revision History

Revision	Date	Changes
1.0	2008-7-3	-