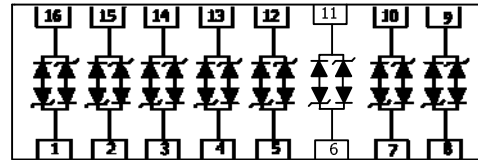


## Feature

- 500 Watts Peak Pulse Power per Line ( $t_p=8/20\mu s$ )
- Bidirectional Configurations
- ESD Protection > 40 kilovolts
- Available in Multiple Voltage Types: 3.3V to 36V
- Protects up to Eight (8) Lines
- Low Capacitance: 15pF
- RoHS Compliant
- DFN-16L package
- 61000-4-2 (ESD): Air - 15kV, Contact - 8Kv
- 61000-4-4 (EFT): 40A - 5/50ns
- 61000-4-5 (Surge): 12A, 8/20 $\mu s$  Level 1 (Line-Ground) & Level 2 (Line-Line)



## Applications

- Wireless Communication Circuits ;
- RS-422, RS-432 & RS-485 ;
- Low Voltage ASICs ;
- Ethernet - 10/100 Base

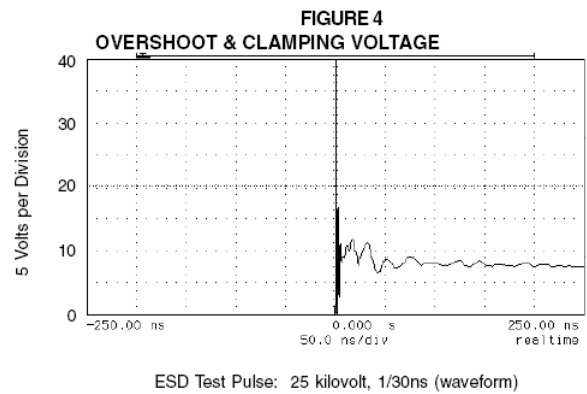
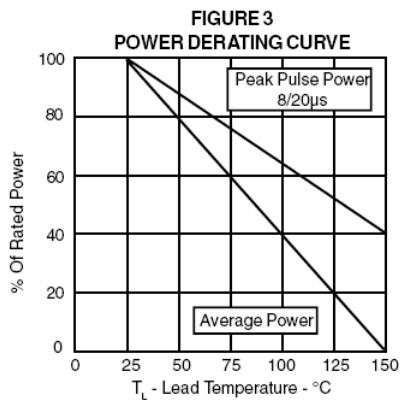
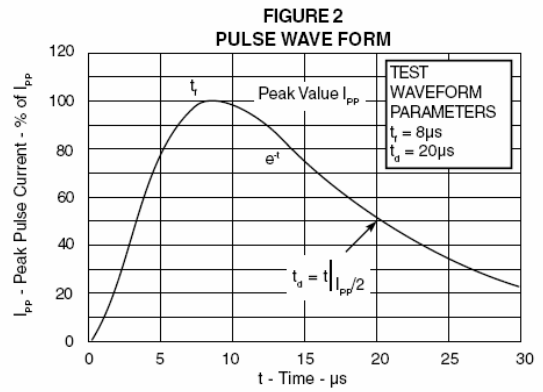
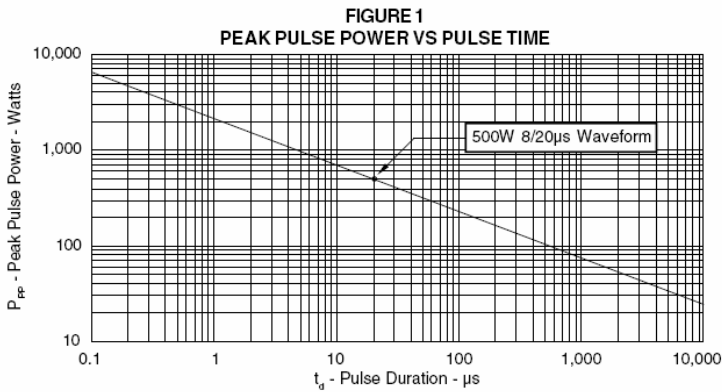
## Electrical characteristics per line @25°C (unless otherwise specified)

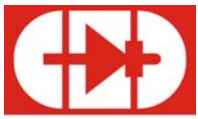
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse stand-off voltage	$V_{RWM}$				5	V
Reverse Breakdown voltage	$V_{BR}$	$I_t = 1mA$	6			V
Reverse Leakage Current	$I_D$	$V_{RWM} = 5V$ $T=25^\circ C$			20	$\mu A$
Clamping Voltage	$V_C$	$I_P = 1A$ $t_P = 8/20\mu s$			9.8	V
Clamping Voltage	$V_C$	$I_{PP} = 42A$ $t_P = 8/20\mu s$			24	V
Junction Capacitance	$C_j$	$V_R = 0V$ $f = 1MHz$			15	pF

**Absolute maximum rating @25°C**

Rating	Symbol	Value	Units
Peak Pulse Power ( $t_p=8/20\mu s$ )	$P_{pp}$	500	W
Soldering Temperature for 10 seconds	$T_{II}$	260	°C
Forward Voltage( $I_F=50mA$ )	$V_F$	1.5	V
Operating Temperature	$T_L$	-55 to +150	°C
Storage Temperature	$T_{STG}$	-55 to +150	°C

**Typical Characteristics**





GOOD-ARK

ESD Protector

SES5VN10X6-16B

SES Series

ROHS

FIGURE 5  
INSERTION LOSS

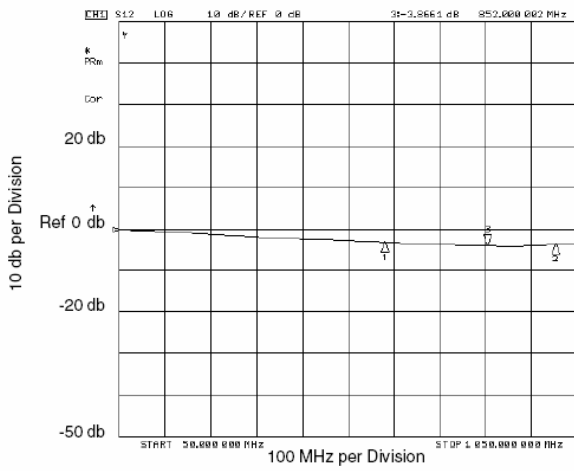
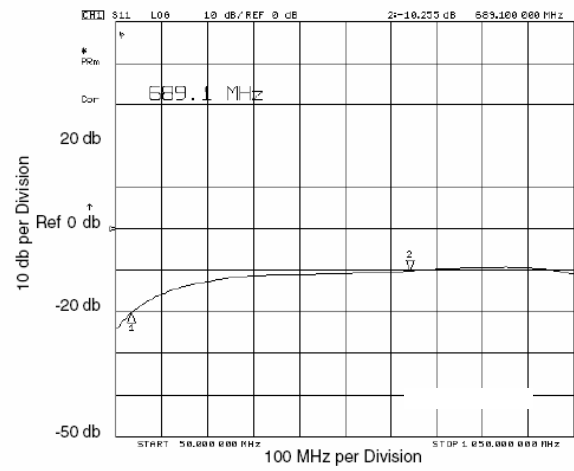
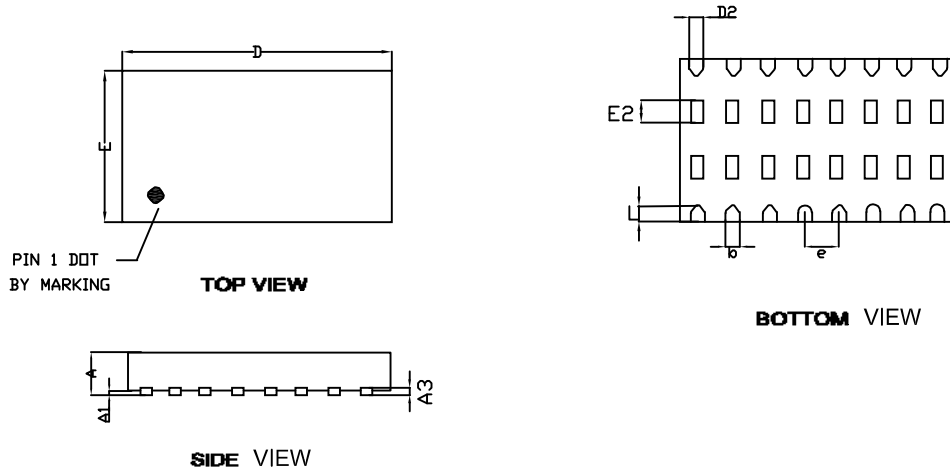


FIGURE 6  
RETURN LOSS



**Product dimension**



COMMON DIMENSIONS(MM)			
PKG.	W:VERY VERY THIN		
REF	MIN	NOM.	MAX
A	0.70	0.75	0.80
A1	0.00	-	0.05
A3	0.2 REF.		
D	9.95	10.00	10.05
E	5.95	6.00	6.05
D2	0.25	0.40	0.50
E2	0.675	0.825	0.925
L	0.45	0.55	0.65
b	0.35	0.40	0.45
e	1.27 Bac		

Revision History

Revision	Date	Changes
A0	2007-12-10	