

APPLICATIONS

- ✧ Portable Electronics.
- ✧ Microprocessor Based Equipment.
- ✧ Set-Top Box.
- ✧ Notebooks, Desktops, and Servers.
- ✧ Portable Instrumentation.
- ✧ Industrial Controls.
- ✧ Peripherals.

IEC COMPATIBILITY

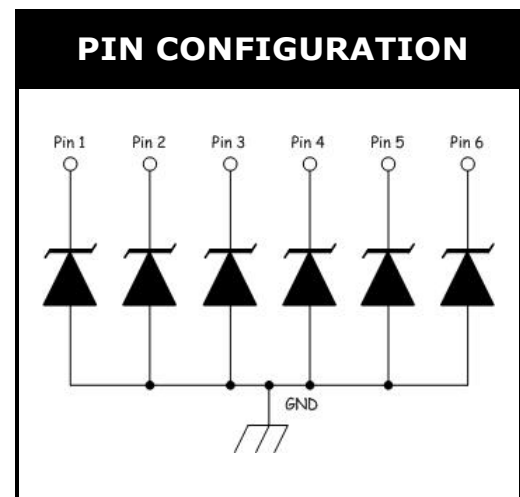
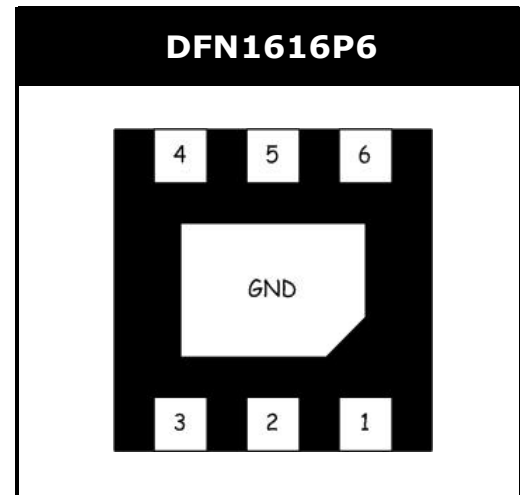
- ✧ IEC61000-4-2 (ESD) $\pm 25\text{kV}$ (air), $\pm 15\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 2A (8/20 μs).

FEATURES

- ✧ 20 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects Six Unidirectional Lines.
- ✧ Low Clamping Voltage.
- ✧ RoHS Compliant.

MECHANICAL CHARACTERISTICS

- ✧ DFN1616P6 (1.6x1.6mm) Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 4.2 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

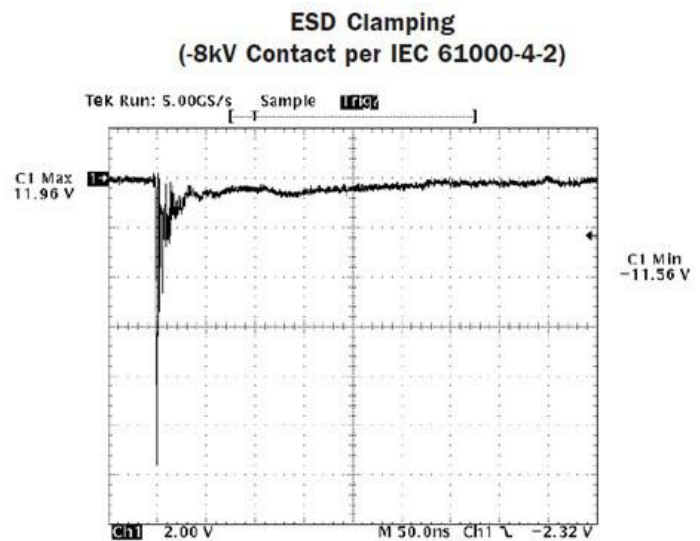
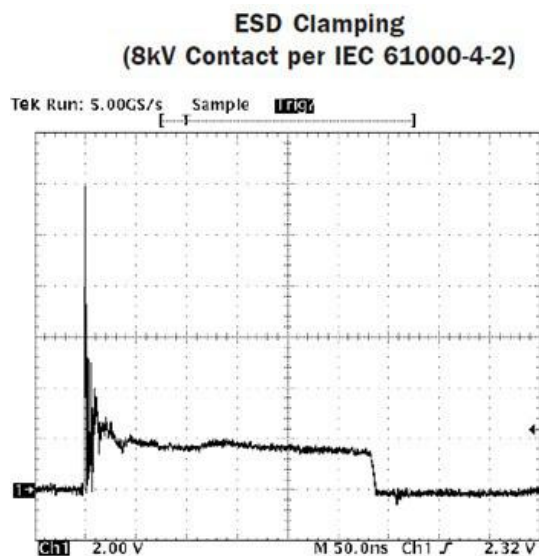


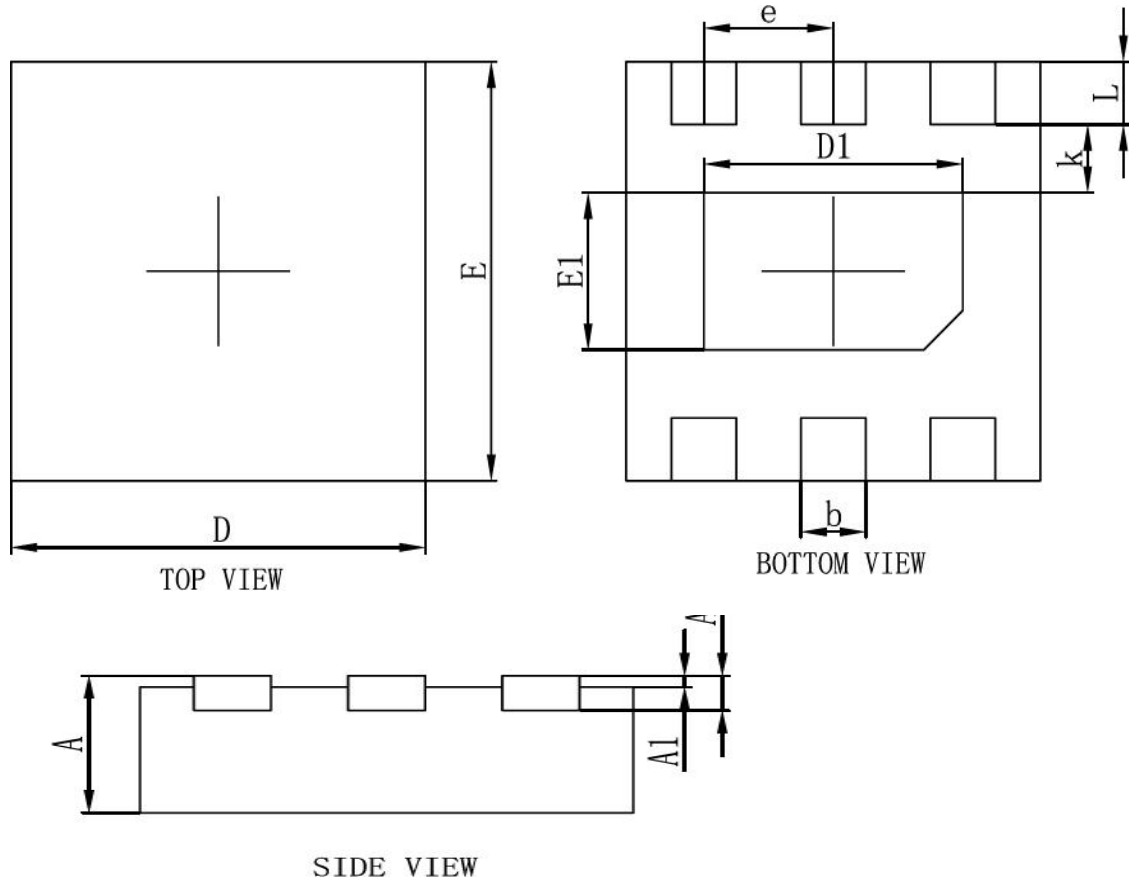
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	20	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 _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(μA) (max.)	(pF) (typ.)
ESDA3306P6	SD3	3.3	4.5	1	8.5	8.5	2	0.5	9
ESDA0506P6	SD5	5	6.0	1	9.8	9.8	2	0.5	8
ESDA1206P6	SDA	12	13.3	1	17	19	2	0.5	6



DFN1616P6 PACKAGE OUTLINE & DIMENSIONS


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450/0.550	0.550/0.650	0.018/0.022	0.022/0.026
A1	0.000	0.050	0.000	0.002
A3	0.152REF.		0.006REF.	
D	1.550	1.650	0.061	0.065
E	1.550	1.650	0.061	0.065
E1	0.500	0.700	0.020	0.028
D1	0.900	1.100	0.035	0.043
k	0.200MIN.		0.008REF.	
b	0.200	0.300	0.008	0.012
e	0.500BSC.		0.020BSC.	
L	0.164	0.316	0.006	0.012

Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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