

APPLICATIONS

- ✧ Portable Electronics.
- ✧ Microprocessor Based Equipment.
- ✧ Set-Top Box.
- ✧ Notebooks, Desktops, and Servers.
- ✧ Portable Instrumentation.
- ✧ 10/100/1000 Ethernet.
- ✧ Digital Video Interface (DVI).

IEC COMPATIBILITY

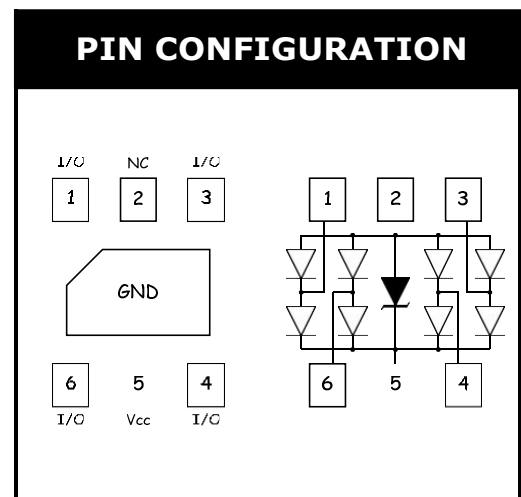
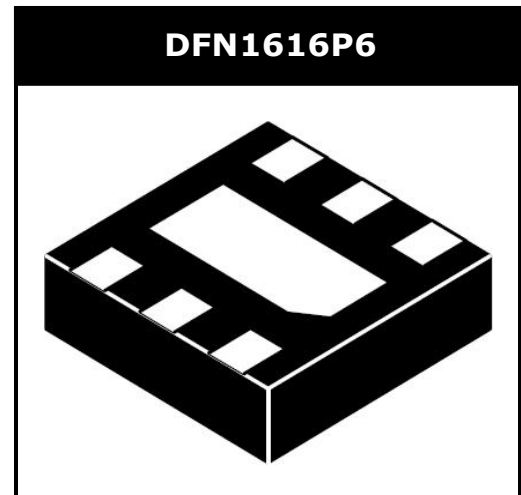
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 5A (8/20 μs).

FEATURES

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

MECHANICAL CHARACTERISTICS

- ✧ DFN1616P6 (1.6x1.6mm) Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 20 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

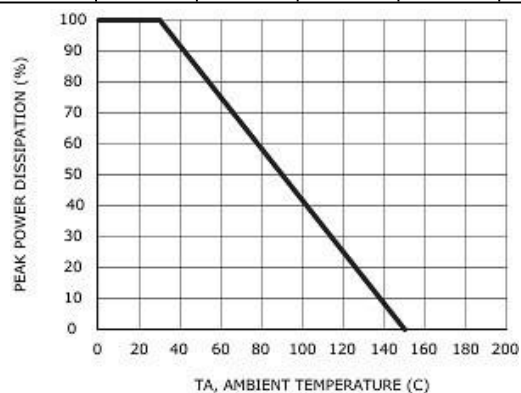
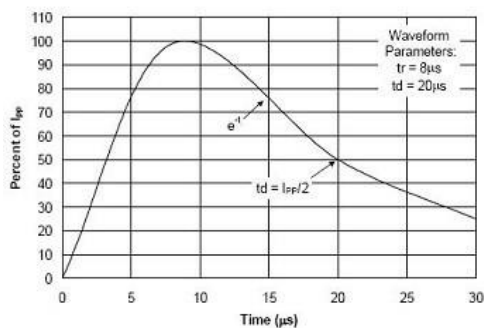
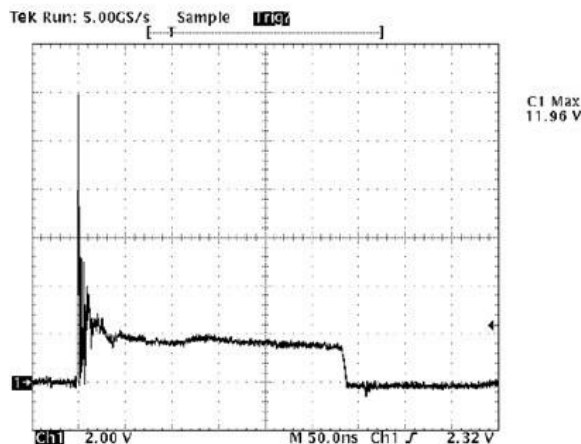
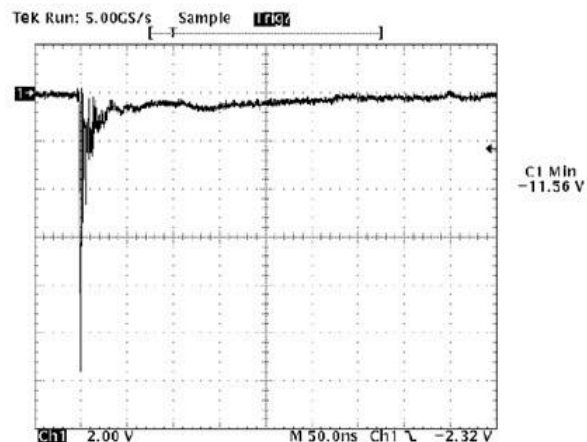


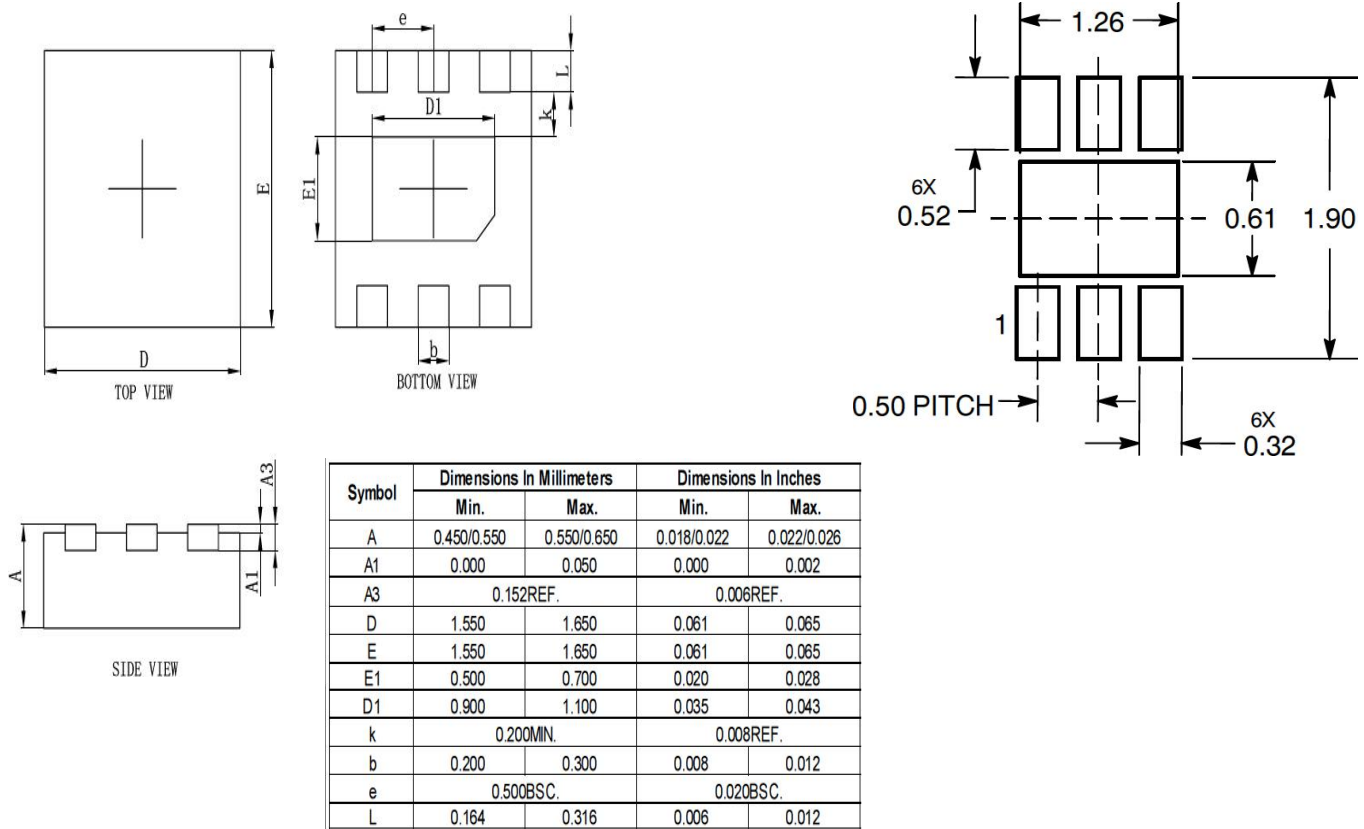
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	150	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) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (max.)	V _C (max.) (@A)	I _R (μA) (max.)	C _T (pF) (typ.)
LC0504P6	L45	5	6	1	12	25	5	1.5

Pulse Waveform

Power Derating Curve
**ESD Clamping
(8kV Contact per IEC 61000-4-2)**

**ESD Clamping
(-8kV Contact per IEC 61000-4-2)**


DFN1616P6 PACKAGE OUTLINE & DIMENSIONS

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

For additional information, please contact your local Sales Representative.

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