

#### DESCRIPTION

The KPESD8V0S1UL is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, portable devices, digital cameras, power supplies and many other portable applications.

#### **FEATURES**

♦ Transient protection for high-speed data lines IEC 61000-4-2 (ESD) ±15kV (Air)

±8kV (Contact)

- $\diamond$  Protects one directional I/O line
- ♦Low clamping voltage
- ♦Low leakage current

#### **MACHANICAL DATA**

- ♦DFN1006 package
- ♦Packaging: Tape and Reel
- $\Rightarrow$ High temperature soldering guaranted: 260 °C/10s
- ♦Reel size: 7 inch

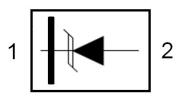
# **ORDERING INFORMATION**

- ♦Package: DFN1006
- ♦ Material: Halogen free
- ♦Packing: Tape & Reel
- ♦Quantity per reel: 10,000pcs

#### **APPLICATIONS**

- ♦ Cell Phone Handsets and Accessories
- ♦ Microprocessor based equipment
- ♦Personal Digital Assistants (PDA's)
- ♦Notebooks, Desktops, and Servers
- ♦Portable Instrumentation
- ♦Peripherals
- ♦Pagers

### **PIN CONFIGURATION**



# PACKAGE OUTLINE

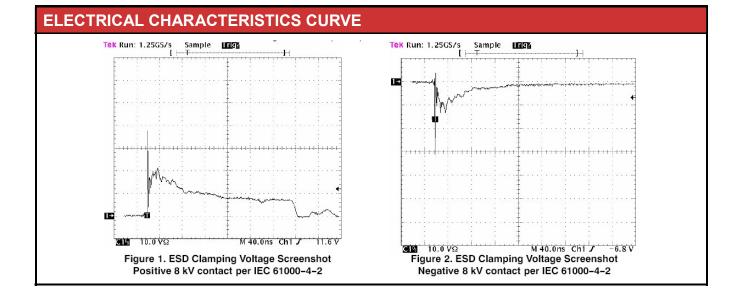




ABSOLUT	ABSOLUTE MAXIMUM RATING										
Symbol	Parameter	Value	Units								
$V_{ESD}$	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±30 ±22	Kv								
P <sub>D</sub>	Total Power Dissipation on FR-5 Board (Note 1) @ Ta=25°C	150	Mw								
$T_{J,}T_{STG}$	Junction and Storage Temperature	-55/+150	°C								
TL	Lead Solder Temperature – Maximum (10 Second Duration)	260	°C								

These ratings are limiting values above which the serviceability of the diode may be impaired Note 1. FR-5=1.0x0.75x0.62 in.

ELECTRICAL CHARACTERISTICS (Tamb=25°C)												
Part Number	Device Marking	V <sub>RWM</sub> (V) Max.	Ι <sub>R</sub> (μΑ) Max.	V <sub>B</sub> (V) Min.	Ι <sub>τ</sub> (Ma)		′c /) @A	۷ (۱ Max.	/c /) @A)	Р <sub>РК</sub> (W) Max.	C <sub>J</sub> (Pf) Max.	
KPESD8V0S1UL	YC	8.0	1	8.5	1	15.0	5.0	18.0	6.0	108	65	





Datasheet

# **DFN1006 PACKAGE OUTLINE DIMENSIONS**

