

## FEATURES

- ✧ Protects one I/O or power line
- ✧ Low clamping voltage
- ✧ Working voltage: 15V
- ✧ Low leakage current
- ✧ RoHS compliant

## MAIN APPLICATIONS

- ✧ Cellular phones
- ✧ Personal digital assistants (PDA's)
- ✧ Laptop computers
- ✧ Digital cameras

## PROTECTION SOLUTION TO MEET

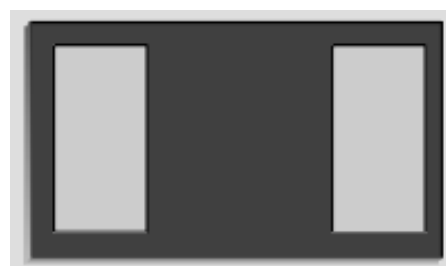
- ✧ IEC61000-4-2 (ESD)  $\pm 30\text{kV}$  (air),  $\pm 30\text{kV}$  (contact)
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns)
- ✧ IEC61000-4-5 (Lightning) 80A (8/20 $\mu\text{s}$ )

## MECHANICAL CHARACTERISTICS

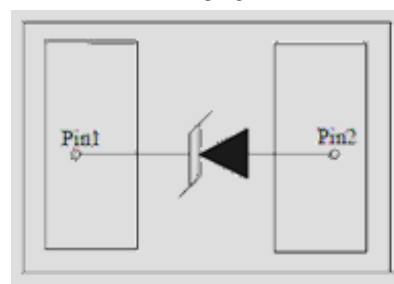
- ✧ DFN1610-2L package
- ✧ Molding compound flammability rating: UL 94V-0
- ✧ Quantity per reel: 3,000pcs
- ✧ Lead finish: lead free
- ✧ Marking code: 15P

## ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ , RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power dissipation at 8/20 $\mu\text{s}$ waveform	$P_{PP}$	2000	W
Lead soldering temperature	$T_L$	260 (10 sec.)	
Operating junction temperature range	$T_J$	-55 to +125	
Storage temperature range	$T_{STG}$	-55 to +150	



DFN1610-2L



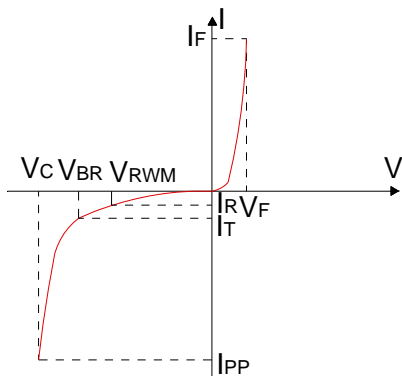
PIN Configuration

**ELECTRICAL CHARACTERISTICS** ( $T_A=25$  )

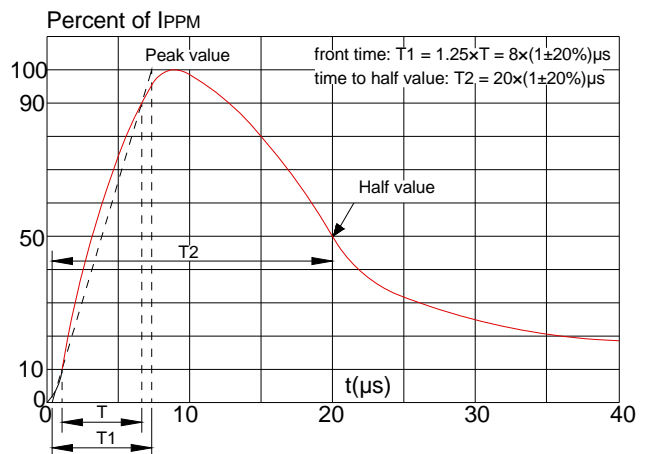
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	$V_{RWM}$				15	V
Reverse breakdown voltage	$V_{BR}$	$I_T = 1mA$	16	17.2	20	V
Reverse leakage current	$I_R$	$V_{RWM} = 15V$			1	$\mu A$
Peak pulse current	$I_{PP}$	$t_P = 8/20\mu s$			80	A
Clamping voltage	$V_C$	$I_{PP}=80A, t_P=8/20\mu s$		24	26	V
Junction capacitance	$C_J$	$V_{RWM}=0V, f=1MHz$		350	400	pF

**RATINGS AND V I CHARACTERISTICS CURVES** ( $T_A=25$  , unless otherwise noted)

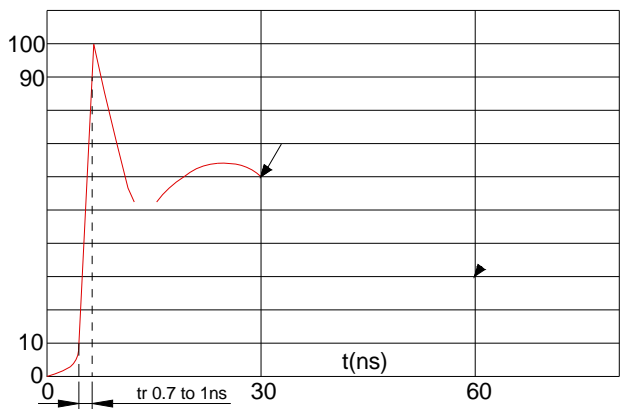
**FIG.1:V- I curve characteristics (Uni-directional)**



**FIG.2: Pulse waveform (8/20 $\mu s$ )**

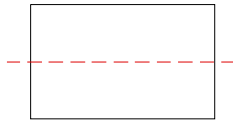


**FIG.4: ESD clamping (30KV conta á**

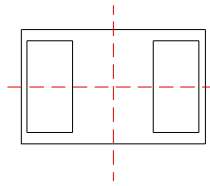




**PACKAGE MECHANICAL DATA**



Top view



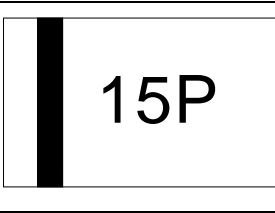
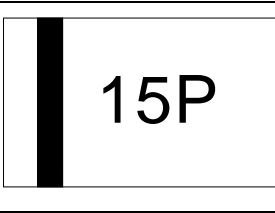
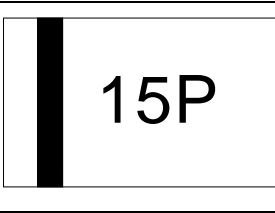
Bottom view



Recommended Soldering Footprint

**JEU15DP ∞ for ESD Protection**

MARKING CODE

Part Number	Marking Code			
JEU15DP-CO	<table border="0"><tr><td data-bbox="703 315 847 526">Pin1</td><td data-bbox="847 315 1123 526"></td><td data-bbox="1123 315 1273 526">Pin2</td></tr></table>	Pin1		Pin2
Pin1		Pin2		

JieJie products are not designed for use in safety-critical applications.