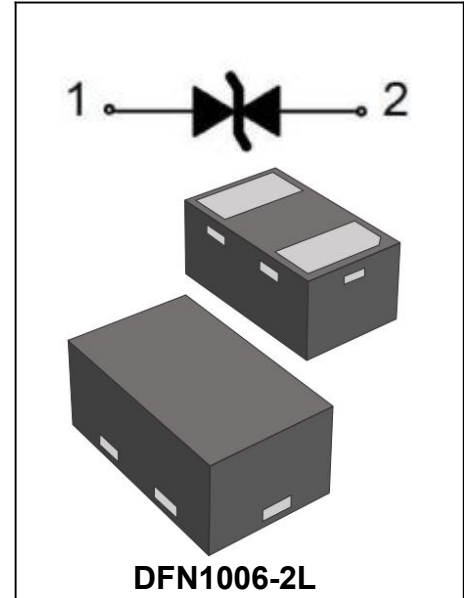


### Features

- ◆ Ultra-low Capacitance 1.8 pF
- ◆ Low Clamping Voltage
- ◆ Small Body Outline Dimensions: 0.039" x 0.024"  
(1.0 mm x 0.60 mm)
- ◆ Low Body Height: 0.019" (0.5 mm)
- ◆ Stand-off Voltage: 3.3V
- ◆ Low Leakage
- ◆ Response Time is Typically < 1 ns
- ◆ IEC61000-4-2 Level 4 ESD Protection for data lines
- ◆ These are Pb-Free Devices



### Applications

- ◆ 10/100/1000 Mbps Ethernet
- ◆ FireWire
- ◆ Display ports
- ◆ MDDI ports
- ◆ Digital Visual Interface (DVI)
- ◆ Cellular handsets & accessories
- ◆ Computer and peripherals

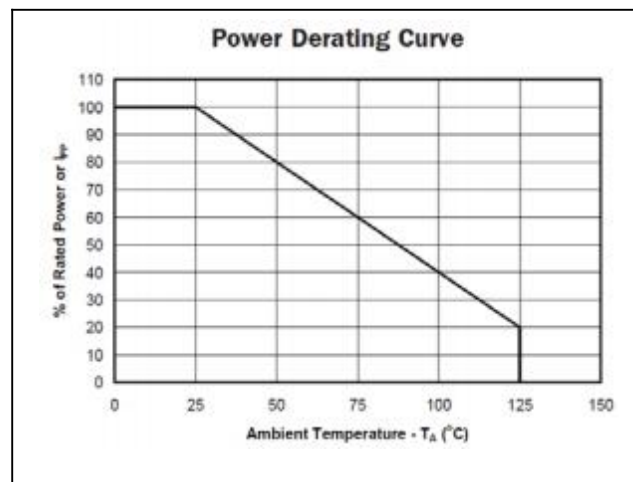
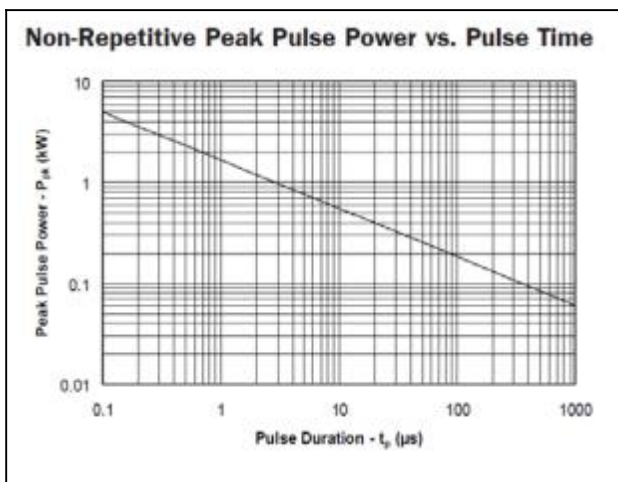
Maximum Rating @ Ta=25°C unless otherwise specified

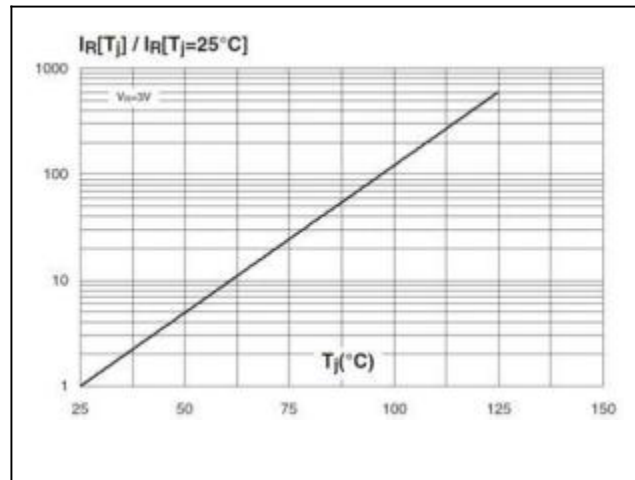
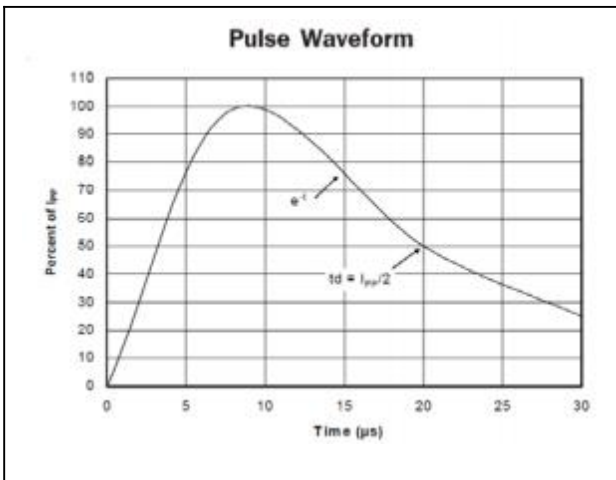
Symbol	Parameter	Ratings	Units
ESD	IEC 61000-4-2 (HBM-ESD)	Contact	±30
		Air	±30
T <sub>L</sub>	Lead Soldering Temperature	260(10sec.)	°C
T <sub>J</sub>	Operating Temperature	-55 to +125	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

### Electrical Characteristics@ Ta=25°C unless otherwise

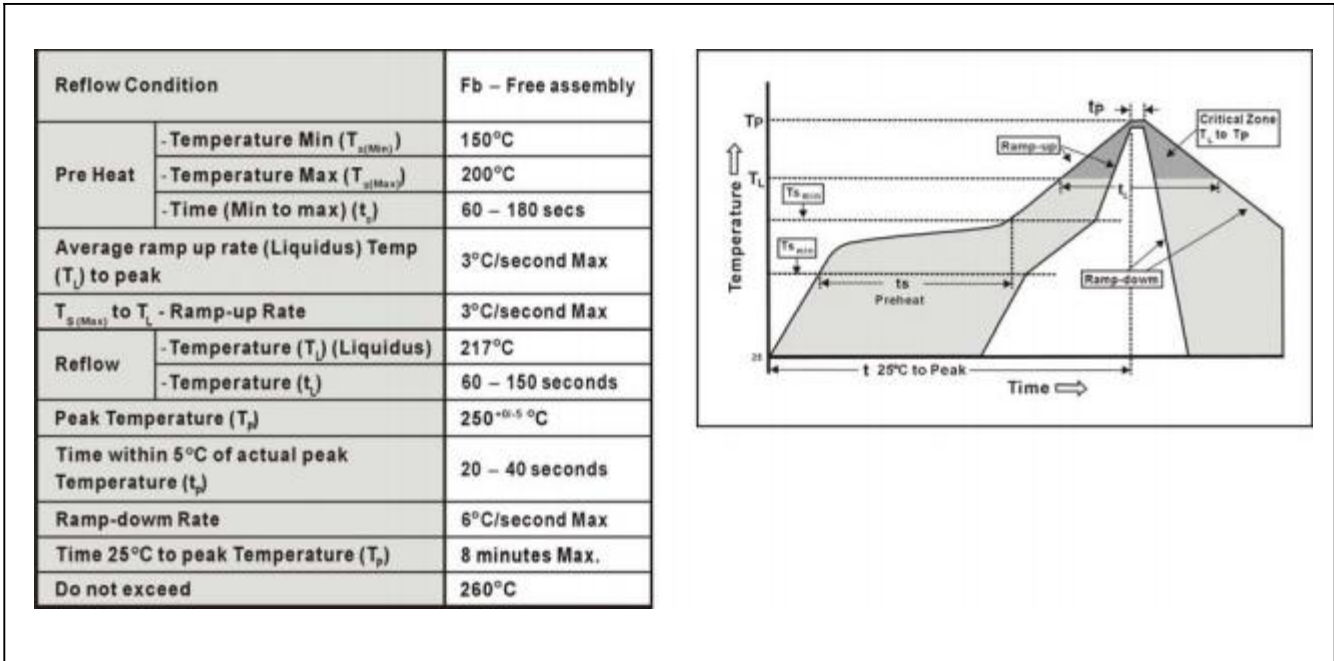
Symbol	Parameter	Conditions	Min.	Typ.	Max.	Units
$V_{RWM}$	Reverse Working Voltage				3.3	V
$V_{BR}$	Reverse Breakdown Voltage	$I_T = 1\text{mA}$ ,	3.5	4.1	5	V
$I_R$	Reverse Leakage Current	$V_{RWM} = 5\text{V}$			0.5	$\mu\text{A}$
$V_C$	Clamping Voltage	$I_{PP} = 1\text{A}$ , $t_p = 8/20\mu\text{s}$			6.5	V
		$I_{PP} = 10\text{A}$ , $t_p = 8/20\mu\text{s}$			13	V
$C_J$	Junction Capacitance	$V_R = 0\text{V}$ , $f = 1\text{MHz}$		18		pF

### Typical Characteristics@ Ta=25°C unless otherwise specified





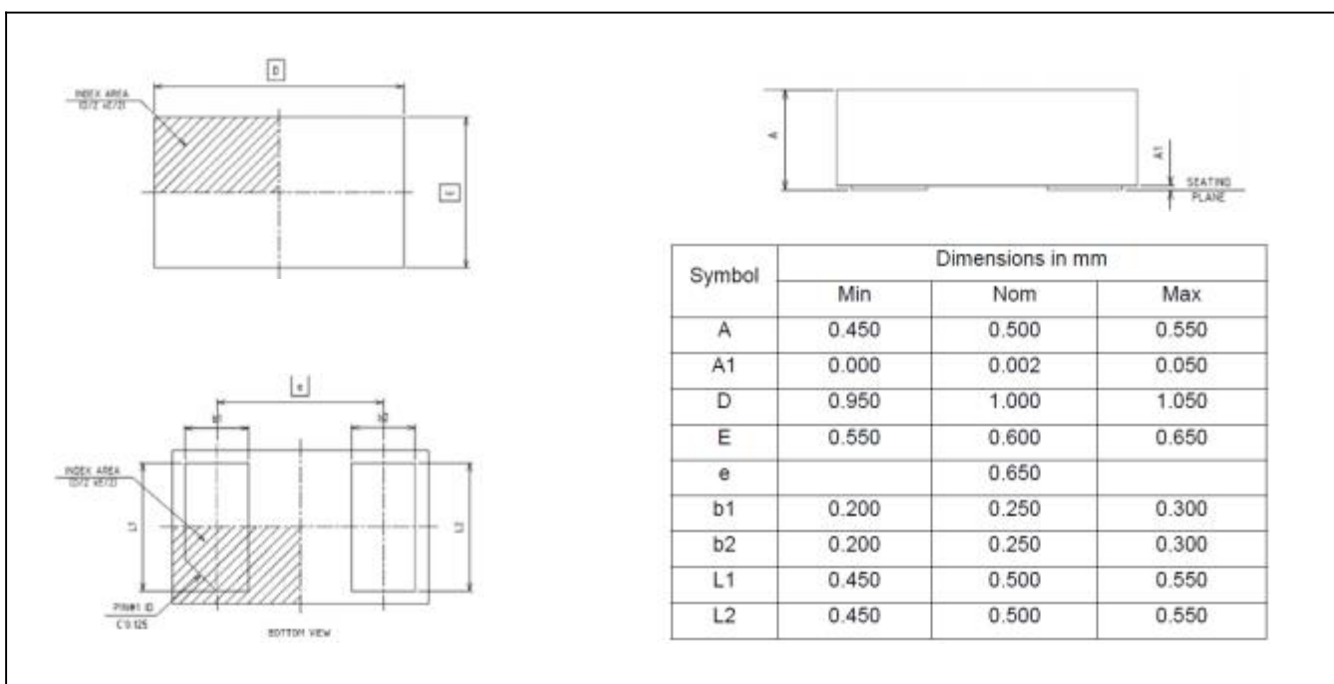
### Soldering Parameters



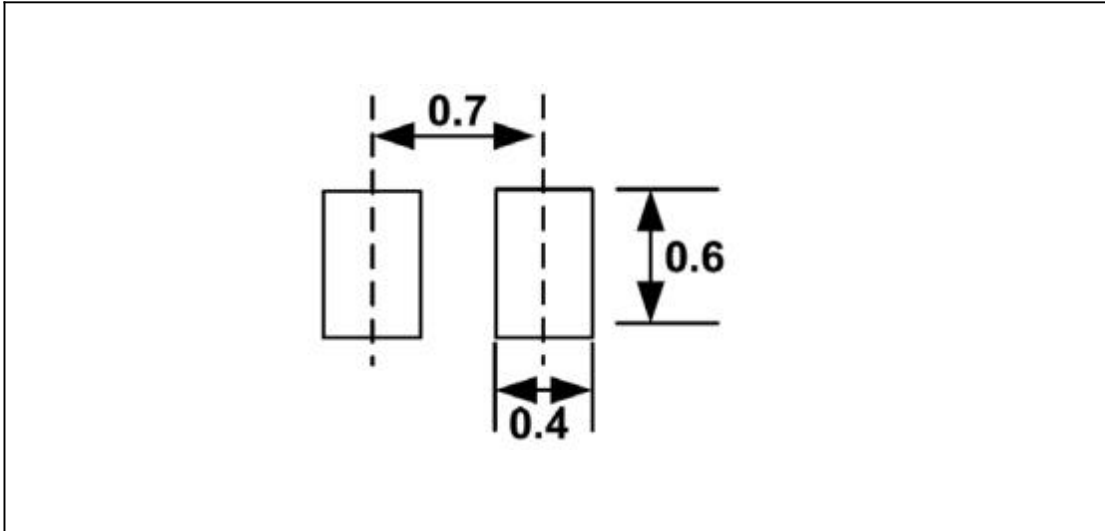
### Package Outline

Plastic surface mounted package

DFN 1006-2L



### Soldering Footprint



### Package And Marking Information

Device	Package	Shipping	Reel Size
JSUN2C031V	DFN1006-2L	10K/Reel	7 inch