



### FEATURES

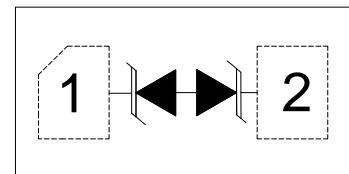
- Solid-state silicon technology
- Low clamping voltage and low leakage current
- Working voltage: 4.5V
- Ultra-low capacitance
- RoHS compliant

### MAIN APPLICATIONS

- Cellular handsets
- Tablets
- Laptops
- Network communication devices
- Other portable devices



DFN1006-2L (Bottom view)



Pin Configuration (Top view)

### 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) 27A (8/20 $\mu\text{s}$ )

### MECHANICAL CHARACTERISTICS

- DFN1006-2L package
- Molding compound flammability rating: UL 94V-0
- Marking code: 4G
- Quantity per reel: 10,000pcs
- Lead finish: lead free

### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25 °C, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power dissipation at 8/20 $\mu\text{s}$ waveform	P <sub>PP</sub>	300	W
ESD per IEC 61000-4-2 (Air)	V <sub>ESD</sub>	+/- 30	kV
ESD per IEC 61000-4-2 (Contact)		+/- 30	
Lead soldering temperature	T <sub>L</sub>	260 (10 sec.)	
Operating junction temperature range	T <sub>J</sub>	-55 to +125	
Storage temperature range	T <sub>STG</sub>	-55 to +150	

ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25 °C)

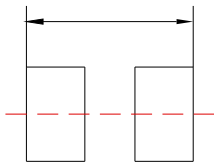
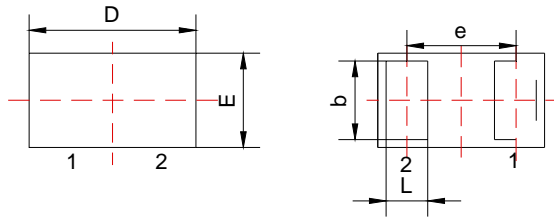
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	V <sub>RWM</sub>				4.5	V
Reverse breakdown voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	4.6			V
Reverse leakage current	I <sub>R</sub>	V <sub>RWM</sub> =4.5V			1.0	μA
Peak pulse current	I <sub>PP</sub>	t <sub>P</sub> =8/20μs			27	A
Clamping voltage	V <sub>C</sub>	I <sub>PP</sub> =16A, t <sub>P</sub> =100ns		7		V
Dynamic resistance	R <sub>DYN</sub>			0.09		
Clamping voltage	V <sub>C</sub>	V <sub>ESD</sub> =8kV		9		V
Clamping voltage	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs		5	6	V
		I <sub>PP</sub> =20A, t <sub>P</sub> =8/20μs		8	9.5	V
		I <sub>PP</sub> =27A, t <sub>P</sub> =8/20μs		10	11	V
Junction capacitance	C <sub>J</sub>	V <sub>RWM</sub> =0V, f=1MHz		80	95	pF



## SOLDERING PARAMETERS

Reflow Condition

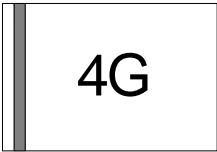
PACKAGE MECHANICAL DATA



TAPE AND REEL INFORMATION DFN1006 2L

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MARKING CODE

Part Number	Marking Code
JEB4V5DFP	


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