

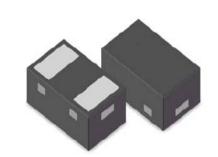
ESD1006NC12VB Transient Voltage Suppressors ESD Protection Diode

General description

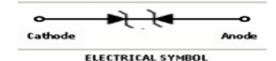
Silicon Protection Diode in a DFN1006 Package.

FEATURES

- 160 Watt peak pulse power (t/p=8/20)
- Capacitance Typ. 10 pF
- · Bidirectional configurations
- Low Leakage Current
- Low clamping voltage
- Protection one data line / Power Line to :
- IEC 61000-4-2 ±30Kv Contact ±30Kv air.
- IEC 61000-4-4 EFT 40A(5/50nS)
- IEC 61000-4-5 Lightning 8A(8/20uS)
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish



DFN1006 Package

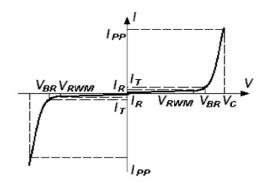


Absolute Maximum Ratings ($T_A = 25$ °C unless otherwise noted)

Symbol	Parameter	Value	Units	_		
Ррр	Peak pulse power	160	W	Device Marking:		
T∟	Max Lead Solder Temperature range (10 Second Duration)	260	°C ·	Device Type Marking Shippin		Shipping
T _{stg}	Storage Temperature Range	-55 to +150	°C	_ Bovies Type	waniig	Omphing
TJ	Junction Temperature	-55 to +125	°C		12B or MOC	10,000/Reel
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±30 ±30	KV	ESD1006NC12VB		
EFT	IEC61000-4-4	40	Α			
Lightning	IEC61000-4-5	8	Α			

Electrical Parameter

Symbol	Parameter			
I _{PP}	Maximum Reverse Peak Pulse Current			
Vc	V _C Clamping Voltage @ I _{PP}			
V_{RWM}	Working Peak Reverse Voltage			
I _R	Maximum Reverse Leakage Current @ V _{RWM}			
I _T	Test Current			
V _{BR}	Breakdown Voltage @ I _T			



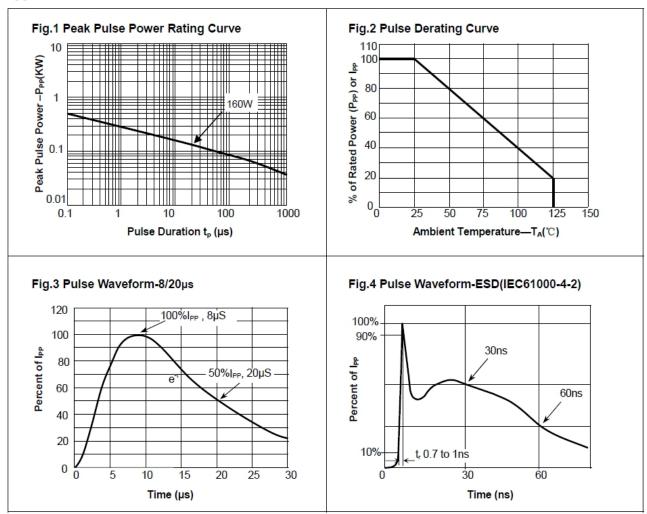
Electrical Characteristics (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Min	Тур	Max	Unit
V _{BR}	Reverse Breakdown Voltage	I _T =1mA	13.3			Volts
V _{RWM}	Reverse Stand-off Voltage				12	Volts
I _R	Reverse Leakage Current	V _R =12V			0.5	uA
Vc	Clamping Voltage(IEC 61000-4-5)	Ipp=8A			20	Volts
Cj	Junction Capacitance	V _R =0V, f= 1MHz	1	10		pF

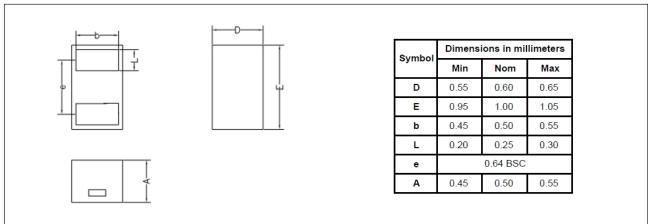
ESD1006NC12VB

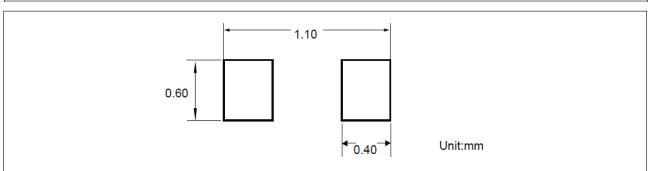


Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



DFN1006 Package Outline







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