ESD1006NC12VU



ESD1006NC12VU Transient Voltage Suppressors ESD Protection Diode

General description

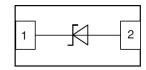
Silicon Protection Diode in a DFN1006 Package.

FEATURES

- 320 Watt peak pulse power (t/p=8/20)
- Capacitance Typ. 10 pF
- · Unidirectional configurations
- Low Leakage Current
- Low clamping voltage
- Protection one data line / Power Line to :
- IEC 61000-4-2 \pm 30Kv Contact \pm 30Kv air.
- IEC 61000-4-4 EFT 40A(5/50nS)
- IEC 61000-4-5 Lightning 16A(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
Ppp	Peak pulse power	320	W
T∟	Max Lead Solder Temperature range (10 Second Duration)	260	°C _
T _{stg}	Storage Temperature Range	-55 to +150	°C
TJ	Junction Temperature	-55 to +125	°C -
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±30 ±30	KV
EFT	IEC61000-4-4	40	Α
Lightning	IEC61000-4-5	16	Α -

Device Marking:

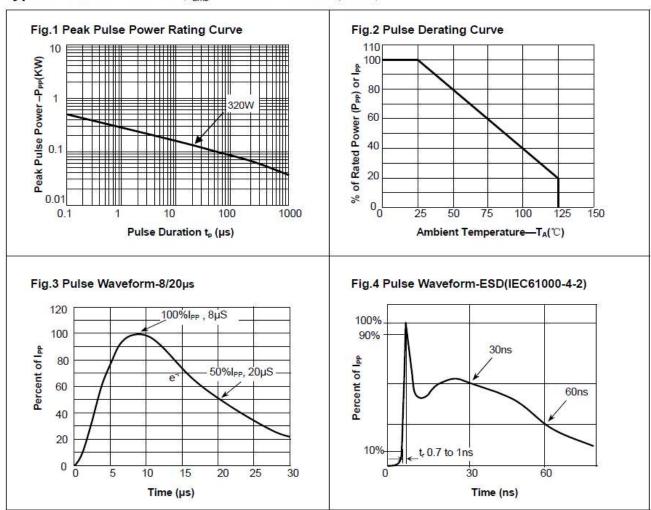
Device Type	Marking	Shipping	
ESD1006NC12VU	12F	10,000/Reel	

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

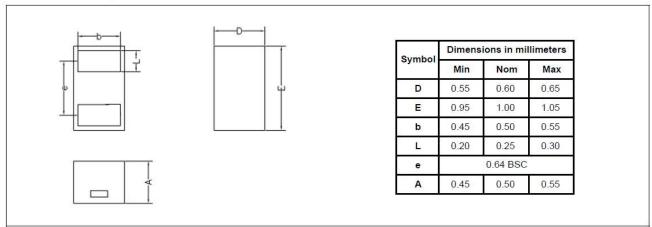
Symbol	Parameter	Test Condition	Min	Тур	Max	Unit
V _{BR}	Reverse Breakdown Voltage	I _T =1mA	13.3			Volts
V _{RWM}	Reverse Stand-off Voltage				12	Volts
I _R	Reverse Leakage Current	V _R =12V			0.5	uA
Vc	Clamping Voltage(IEC 61000-4-5)	Ipp=8A	-	-	20	Volts
Cj	Junction Capacitance	V _R =0V, f= 1MHz	-	10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

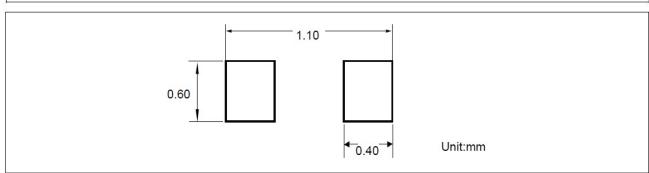


Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



DFN1006 Package Outline







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