

Bi-Directional ESD Protection Diode

12 V

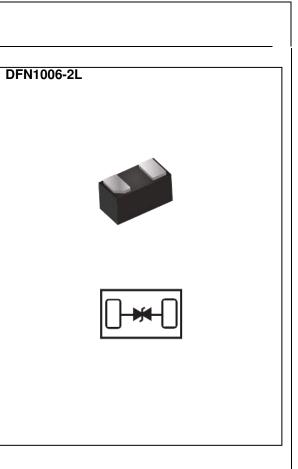
Voltage

Features

- 115W Power Dissipation (8/20us Waveform)
- Low Leakage Current, Maximum of 0.1uA@12Vdc
- Very Low Clamping Voltage
- IEC 61000-4-2(ESD) : ±30kV Air, ±30kV Contact Compliance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DFN1006-2L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 grams



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power (8/20us Waveform)	P _{PP}	115	W
Peak Pulse Power (8/20us Waveform)	I _{PPM}	5	А
ESD Voltage Per IEC61000-4-2 (Contact)		±30	
ESD Voltage Per IEC61000-4-2 (Air)	VESD	±30	kV
ESD Voltage (HBM)		±8	
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



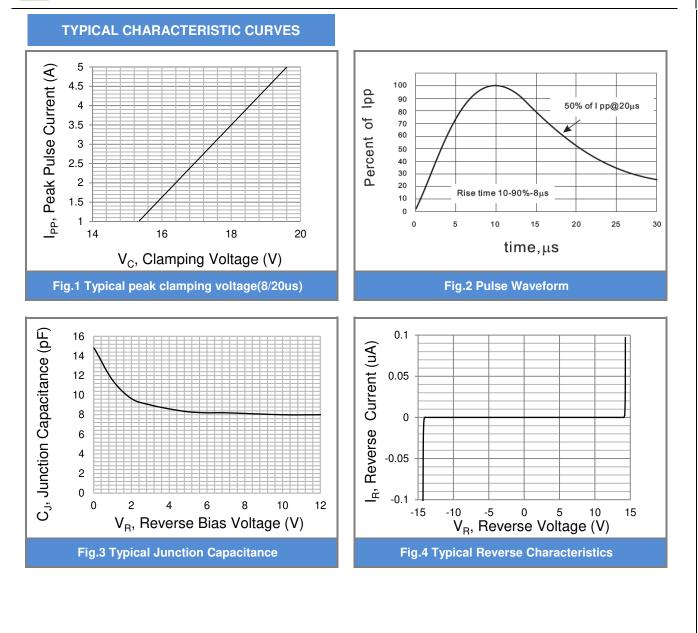
Electrical Characteristics (T_A = 25^oC unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	12	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 1 mA	13	-	-	V
Reverse Leakage Current	I _R	V _R = 12 V	-	-	0.1	uA
Clamping Voltage	Vc	IPP = 1 A, tP = 8/20us	-	-	20	V
		I _{PP} = 5 A, t _P = 8/20 us	-	-	23	V
Off State Junction Capacitance	CJ	0 Vdc Bias f = 1 MHz	-	15	-	рF

SEMI CONDUCTOR

PANJ

PJSD12LCFN2

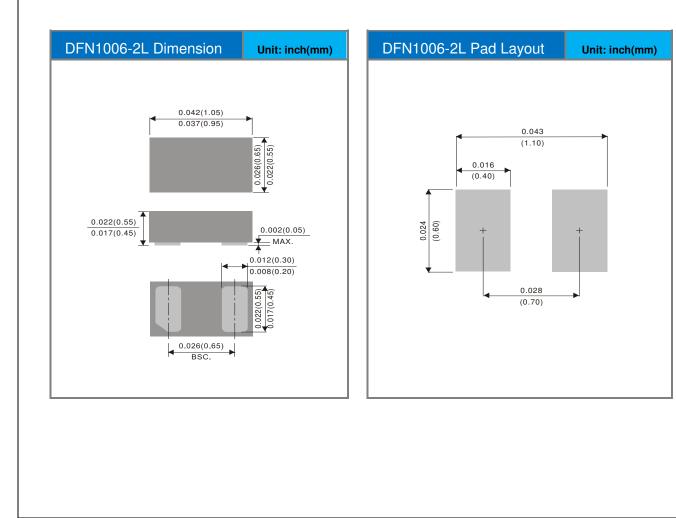




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	Version
PJSD12LCFN2	DFN1006-2L	10K pcs / 7" Reel	BX	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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