5 V

Low Capacitance TVS/ESD Protection

V_{RWM}

CONDUCTOR

Features

PAN

- Bidirectional ESD protection of one line
- IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact Compliance with the capability up to ±30kV
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 3.5A(8/20µS) •
- Low leakage current, maximum of 0.1µA at rated voltage
- Lead free in compliance with EU RoHS 2011/65/EU directive. •
- Green molding compound as per IEC61249 Std.

(Halogen Free)

Mechanical Data

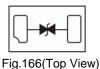
- Case: DFN 2L, Plastic •
- Terminals: Solderable per MIL-STD-750, Method 2026 •
- Approx. Weight: 0.00004 ounces, 0.0011 grams •
- Marking: 6B

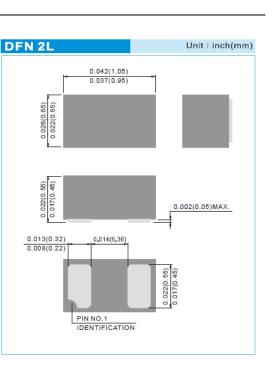
Applications

- Mobile Phones and accessories
- Desktops, Servers and Notebook
- Hand held portable
- **Digital Cameras** .
- **Computer Interfaces Protection**
- Serial and Parallel Ports Protection •
- **Control Signal Lines Protection** .

Maximum Ratings ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	M	±30	kV	
ESD IEC61000-4-2(Contact)	V_{ESD}	±30		
Operating Junction Temperature	TJ	-55 to +125	°C	
Storage Temperature Range	T _{STG}	-55 to +150	°C	











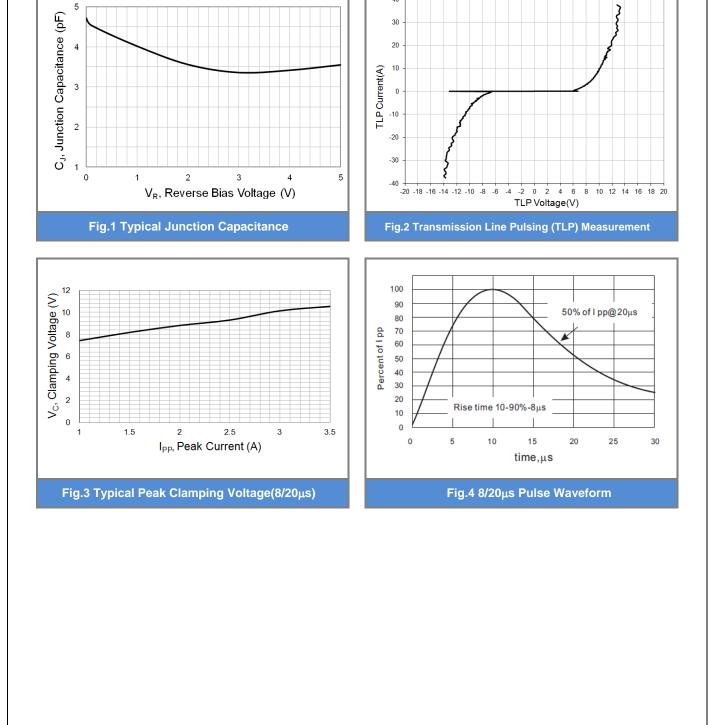


Electrical	Characteristics (T		a athamuian matad)
LIECTICAL	Characteristics (1)	A=25 C unles	s otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Snap-Break Voltage	V_{SB}	I _{SB} =50mA	5	-	8	V
Reverse Leakage Current	I _R	V _R =5.0V	-	-	0.1	μA
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs	-	-	9	· V · V
		I _{PP} =3.5A, t _P =8/20μs	-	-	12.5	
Clamping Voltage TLP (Note 1)	V _{CL}	I _{PP} =4A, t _P =100ns	-	8.6	-	
		I _{PP} =8A, t _P =100ns	-	9.7	-	
Dynamic Resistance	R _{DYN}	t _P =100ns	-	0.27	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f=1MHz	-	-	10	рF

NOTES :

1. Testing using Transmission Line Pulse (TLP) conditions: Z_0 = 50 Ω , t_P = 100 ns.



40

PJEC5V0M1FN2

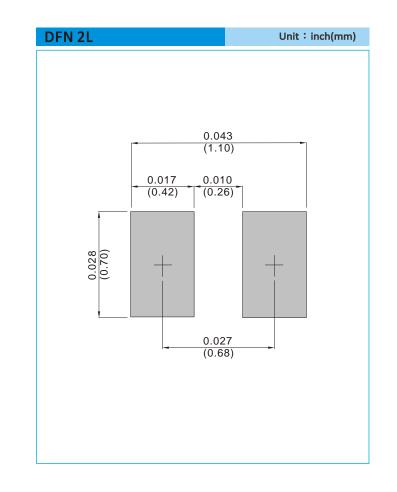
TYPICAL CHARACTERISTIC CURVES



-25



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 8K per 7" plastic Reel



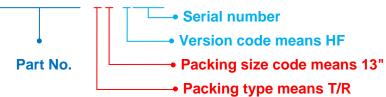


Part No_packing code_Version

PJEC5V0M1FN2_R1_00001

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	x			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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