



Low Capacitance TVS/ESD Protection

V_{RWM}

3.3 V

Features

- 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): 5A(8/20μS)
- Low leakage current, maximum of 0.5μA at rated voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

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

Applications

- Mobile Phones and accessories
- Desktops, Servers and Notebook

Computer Interfaces Protection Serial and Parallel Ports Protection Control Signal Lines Protection

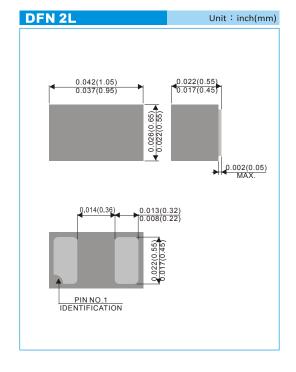
- Hand held portable
- Digital Cameras

- Fig.166(Top View)



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

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)		±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	



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V_{RWM}	-	-	ı	3.3	V
Punch-Trough Voltage	V_{PT}	I _{PT} =2μA	3.5	-	-	V
Snap-Break Voltage	V_{SB}	I _{SB} =50mA	2.8	ı	-	V
Reverse Leakage Current	I _R	V _R =3.3V	-	ı	0.5	μА
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs	-	ı	6	V
		I _{PP} =5A, t _P =8/20μs	-	-	8	
Clamping Voltage TLP (Note 1)	V _{CL}	I _{PP} =4A, t _P =100ns	-	6	-	V
		I _{PP} =8A, t _P =100ns	-	7	-	
Dynamic Resistance	R_{DYN}	t _P =100ns	-	0.25	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f=1MHz	_	-	10	pF

NOTE:

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

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TYPICAL CHARACTERISTIC CURVES

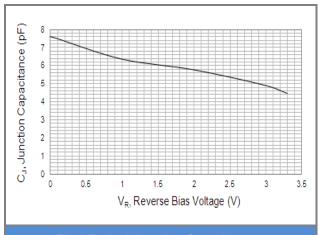


Fig.1 Typical Junction Capacitance

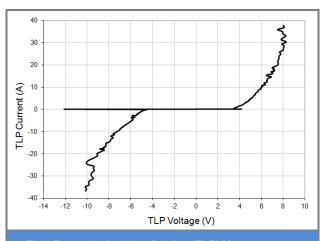


Fig.2 Transmission Line Pulsing (TLP) Measurement

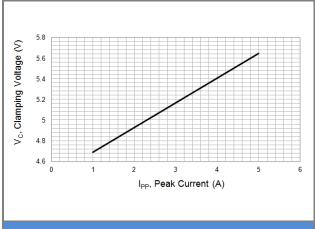
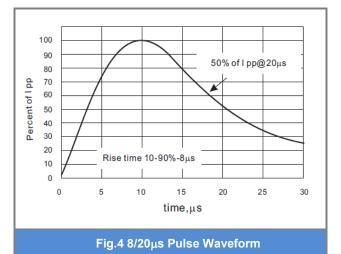


Fig.3 Typical Peak Clamping Voltage(8/20μs)

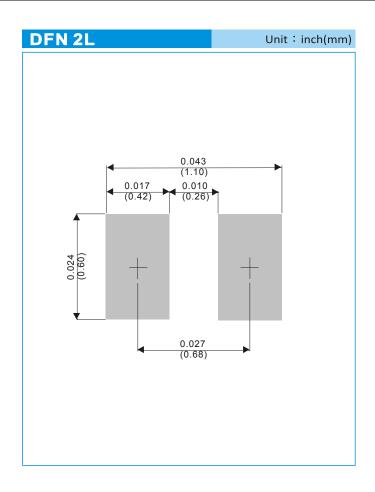


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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

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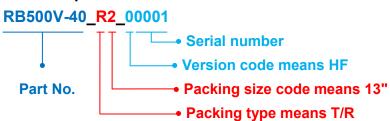




Part No._packing code_Version

PJEC3V3M1FN2_R1_00001

For example:



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)	A	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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Part Number: PJEC3V3M1FN2



PJEC3V3M1FN2

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