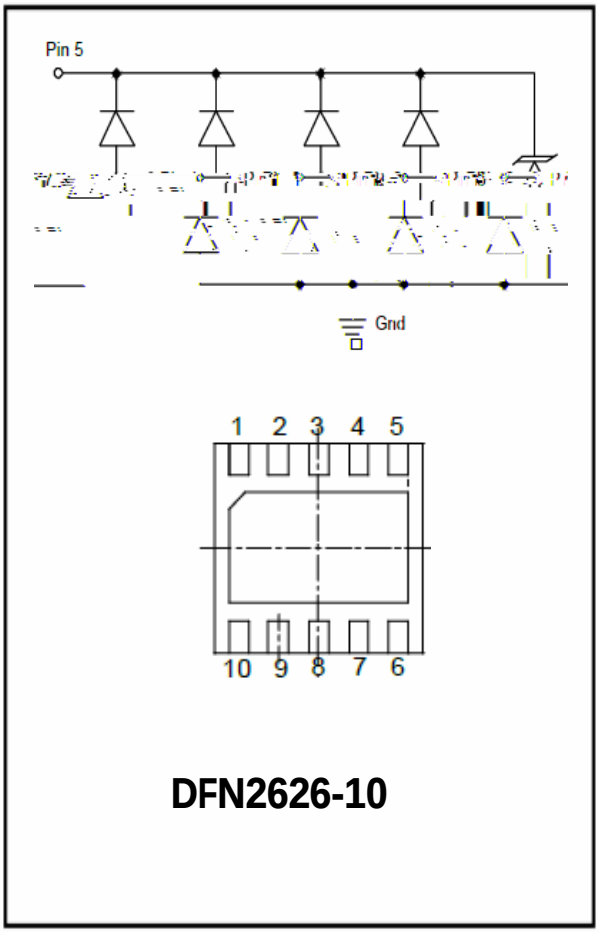
4-Line Uni-directional , Ultra-low Capacitance Transient Voltage Suppressor



Features

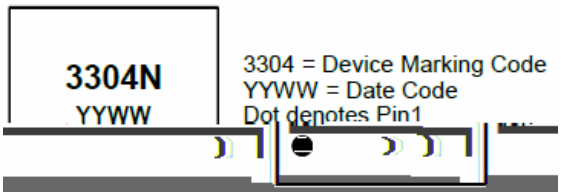
- Ultra small package
- Stand-off voltage: 3.3V
- Transient protection for each line according to
  IEC61000-4-2(ESD): ±15kV (contact)
  IEC61000-4-5(surge):24A (8/20μs)
- Low clamping voltage
- RoHS Compliant

Applications

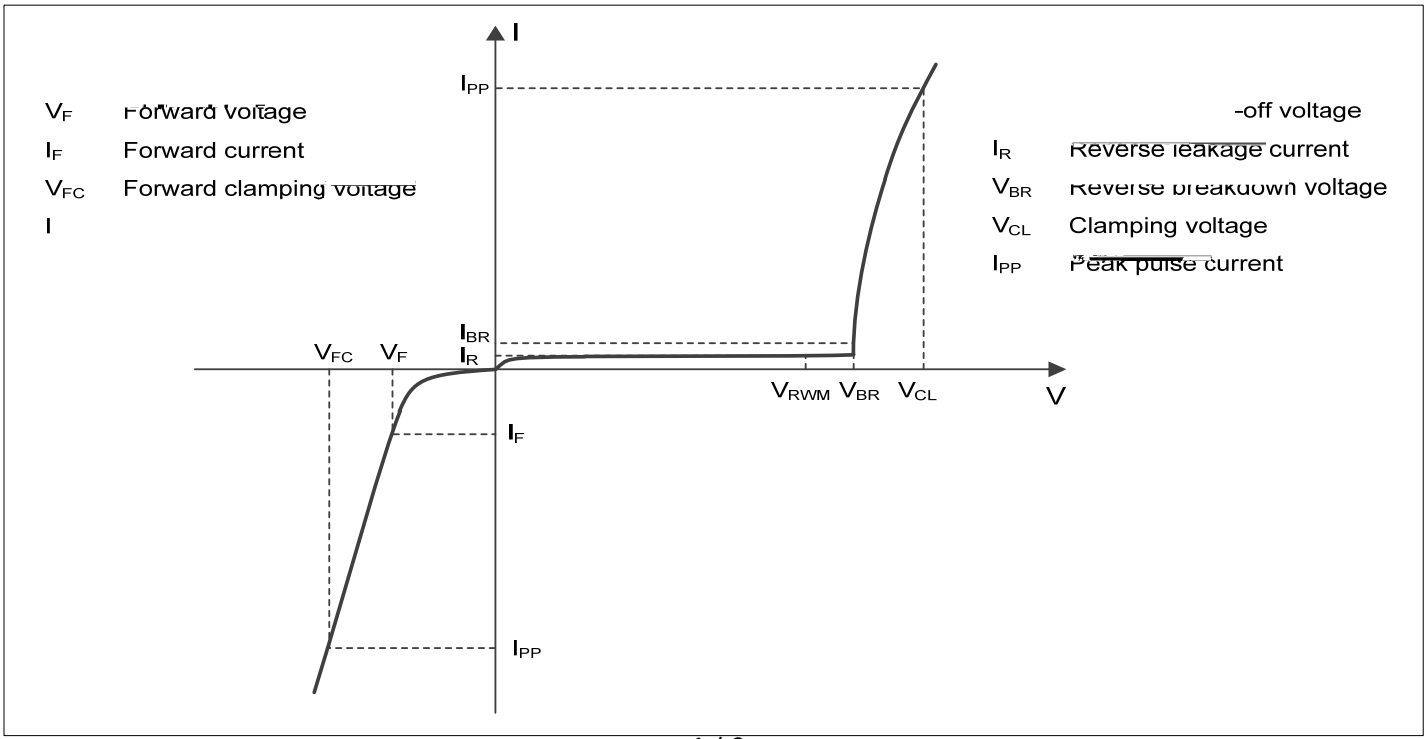
- Analog Video
- RJ-45 Connectors
- T1/E1 Secondary Protection
- T3/E3 Secondary Protection
- 10/100/1000 Ethernet

Mechanical Characteristics

- Package: DFN2626-10L
- Case Material: “Green” Molding Compound.
- Moisture Sensitivity: Level 3 per J-STD-020
- Marking Information: See Below



■Definitions of electrical characteristics



■Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOL	LIMITS	UNIT
Peak pulse power (t_p = 8/20μs)	P_{pk}	450	W
Peak pulse current (t_p = 8/20μs)	I_{PP}	24	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±25	kV
[illegible]			
Operating Temperature Range	T_J	-55~125	
Storage Temperature Range	T_{STG}	-55~150	

■Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse maximum working voltage	V_{RWM}	V				3.3
Reverse leakage current	I_R	μA	V_{RWM} = 3.3V			0.5
t dzyǒKπ¢KN2dzƎK ±2fűI·ƎŜ	V_{PT}	V	I_{PT} = 2μA	3.5		
{yl·LJπ . I·Ǒ] ±2fűI·ƎŜ	V_{SB}	V	I_{SB} = 50mA	2.8		
Clamping voltage 1)	V_{CL}	V	IPP = 1A, (8 x 20μs pulse), any I/O to GND			5.5
Clamping voltage 1)	V_{CL}	V	IPP = 24A, (8 x 20μs pulse), any I/O to GND			18.5
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz between I/O pins		2	
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz any I/O to GND		3.2	5

Notes:

(1). Non-repetitive current pulse, according to IEC61000-4-5. (8/20μs current waveform).

■Ordering Information (Example)

D P/N	PACKING	UNIT WEIGHE	PACG Ep]ä [illegible]
	m ỳ		

■Typical Performance Characteristics (T_a=25 unless otherwise Specified)

Fig.1 8/20μs waveform per IEC61000-4-5

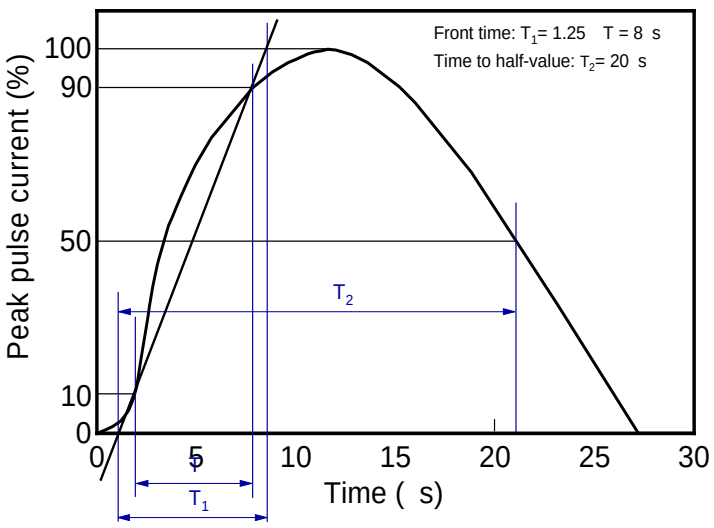


Fig.2 Contact discharge current waveform per IEC61000-4-2

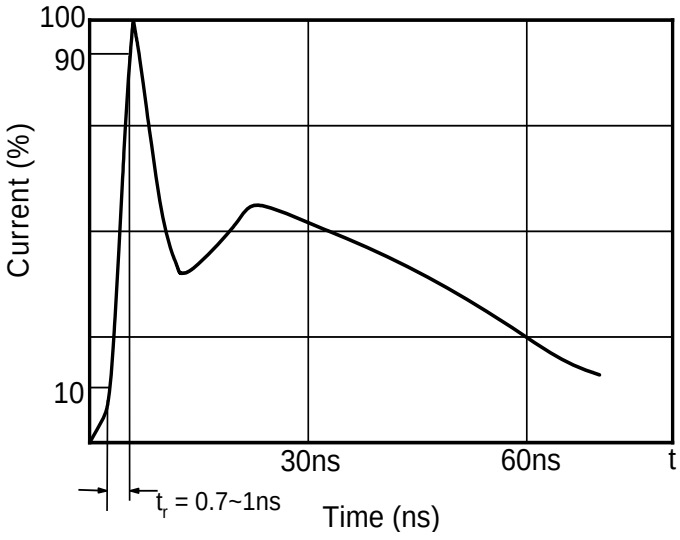


Fig.3 Clamping voltage vs. Peak pulse current

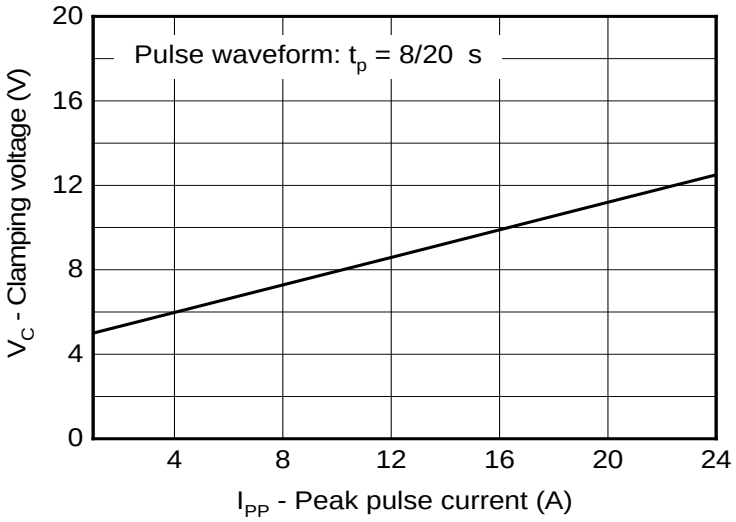


Fig4. Capacitance vs. Reverse voltage

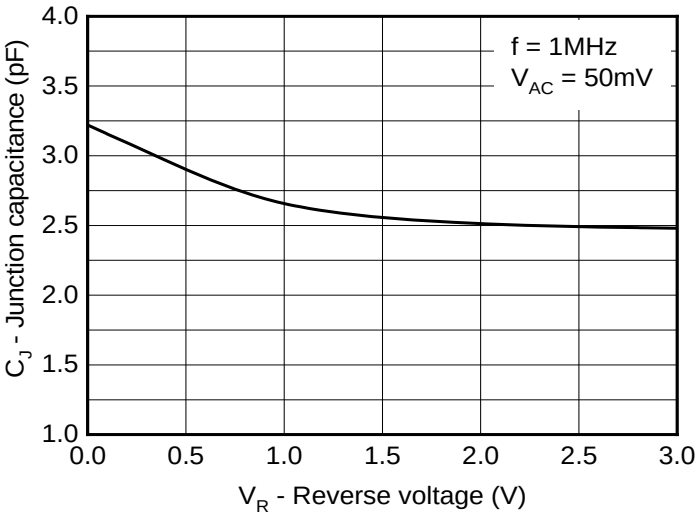


Fig.5 Non-repetitive peak pulse power vs. Pulse time

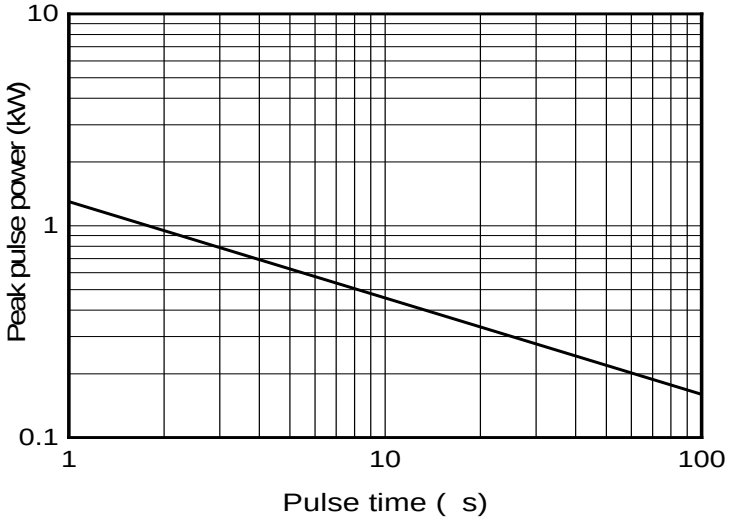
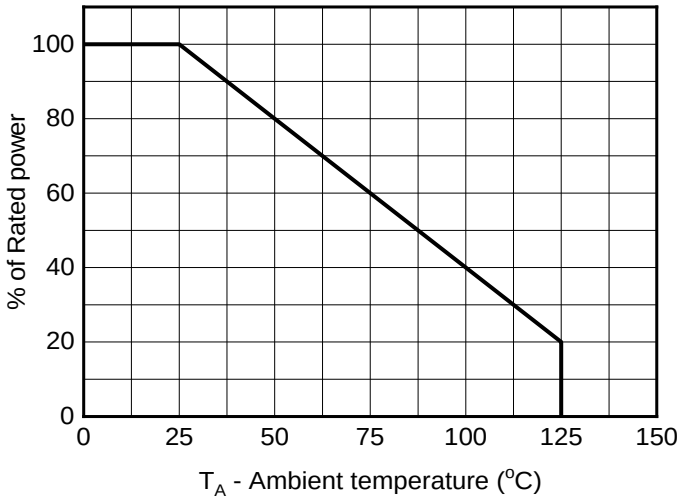


Fig.6 Power derating vs. Ambient temperature



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