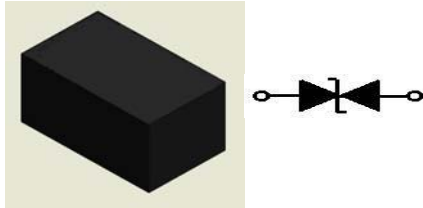
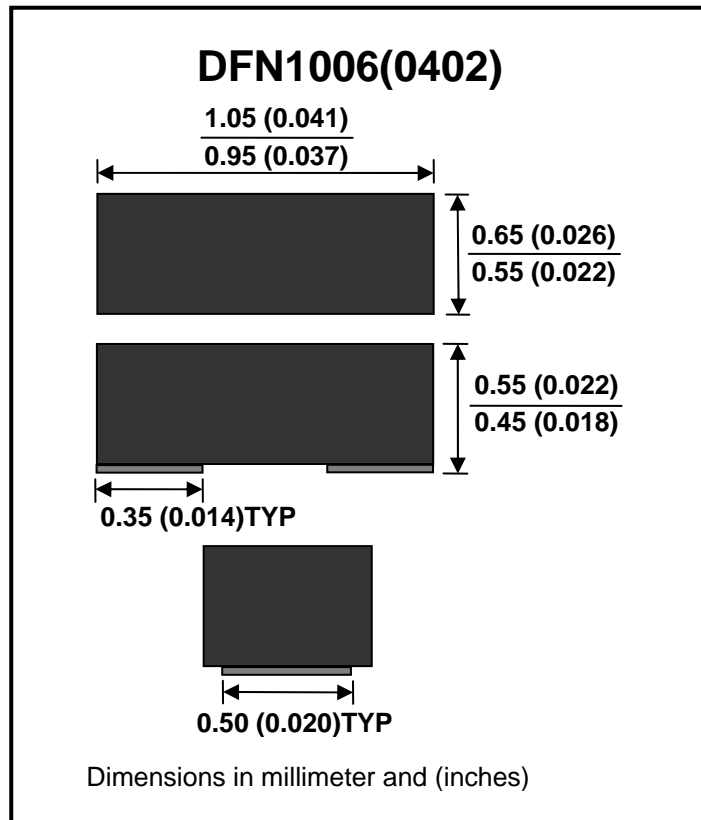


**ESDQR24V0B****24V Bi-directional ESD****Features**

- Surface mount package.
- Bi-directional ESD protection.
- Ultra small SMD package: 0402.
- Pb free version, RoHS compliant, and Halogen free

Mechanical Characteristics

- Case: DFN1006(0402) standard package
- Terminals: Sn / Au plated, solderable per MIL-STD-750, method 2026
- Marking Code: E4
- Mounting position: Any.
- Weight: 0.001 gram(approx.)
- MSL: Level 1

**Maximum Rating And Electrical Characteristics (at Ta=25°C unless otherwise noted)**

Parameter	Condition	Symbol	Min	Typ	Max	Unit
Peak Pulse Power	tp=8/20us (According to IEC61000-4-5)	PpK		110		W
ESD per IEC 61000-4-2 (Air)		VESD		±25		kV
ESD per IEC 61000-4-2 (Contact)				±25		kV
Peak Pulse Current	Tp=8/20us	Ipp		3		A
Operating Junction Temperature		Tj	-55		125	°C
Storage Temperature		Tstg	-55		150	°C
Reverse Stand-Off Voltage		VRWM			24	V
Reverse Breakdown Voltage	It = 1mA	VBR	26.5	28	32	V
Reverse Leakage Current	VR = 24V	IR		4	50	nA
Clamping Voltage	Ipp=1A tp=8/20us	Vc		32	36	V
	Ipp=3A tp=8/20us			37	42	V
Junction Capacitance	VR=0V · f=1MHz	Cj		9.8	15	pF



Typical Characteristics

Fig.1 - 8/20us Peak Pulse Current Wave Form ACC. IEC 61000-4-5

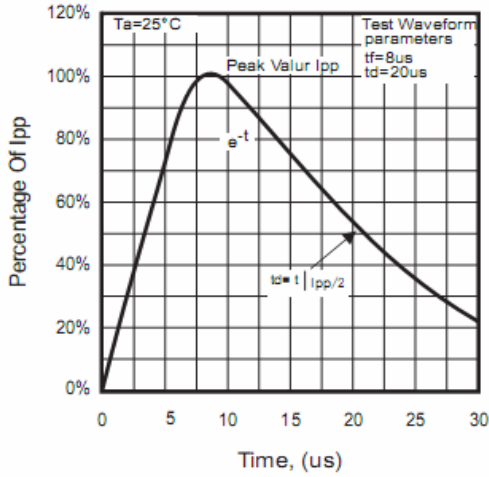


Fig.2 - Power rating derating curve

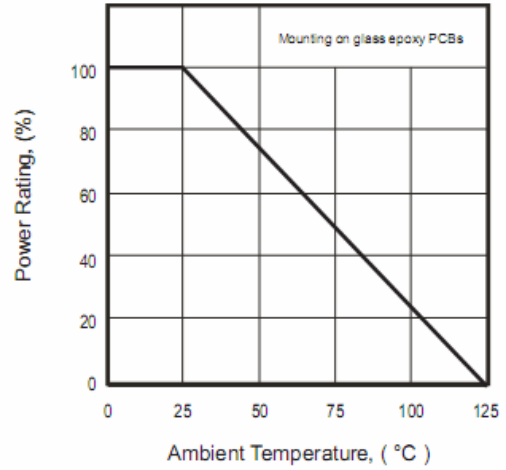


Fig. 3 - Clamping Voltage Vs. Peak Pulse Current

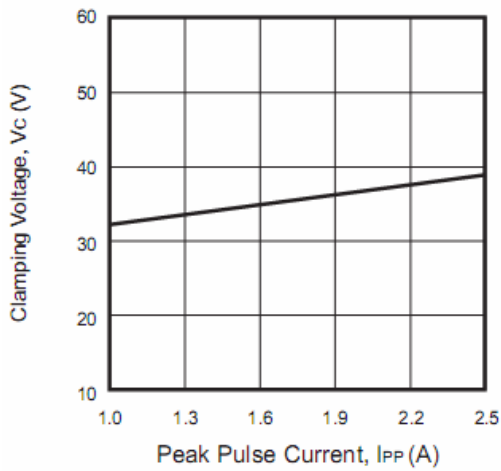


Fig.4 - Capacitance Between Terminals Characteristics

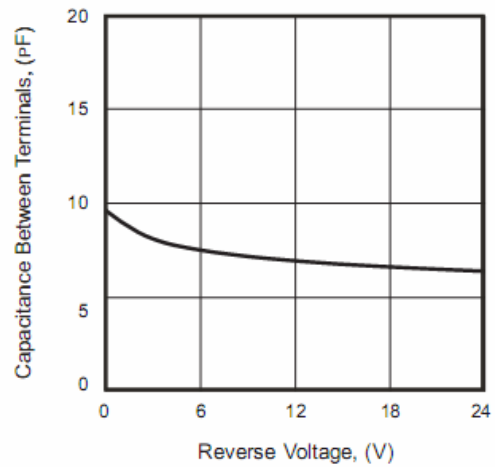
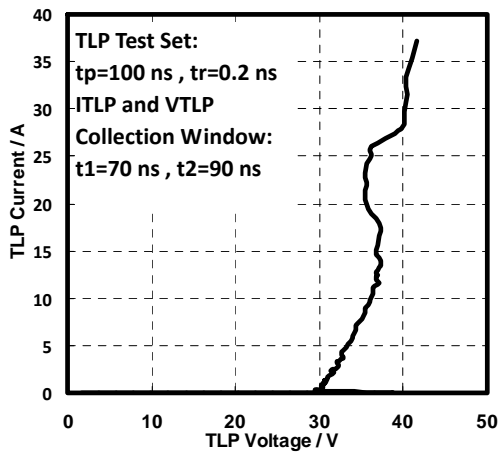


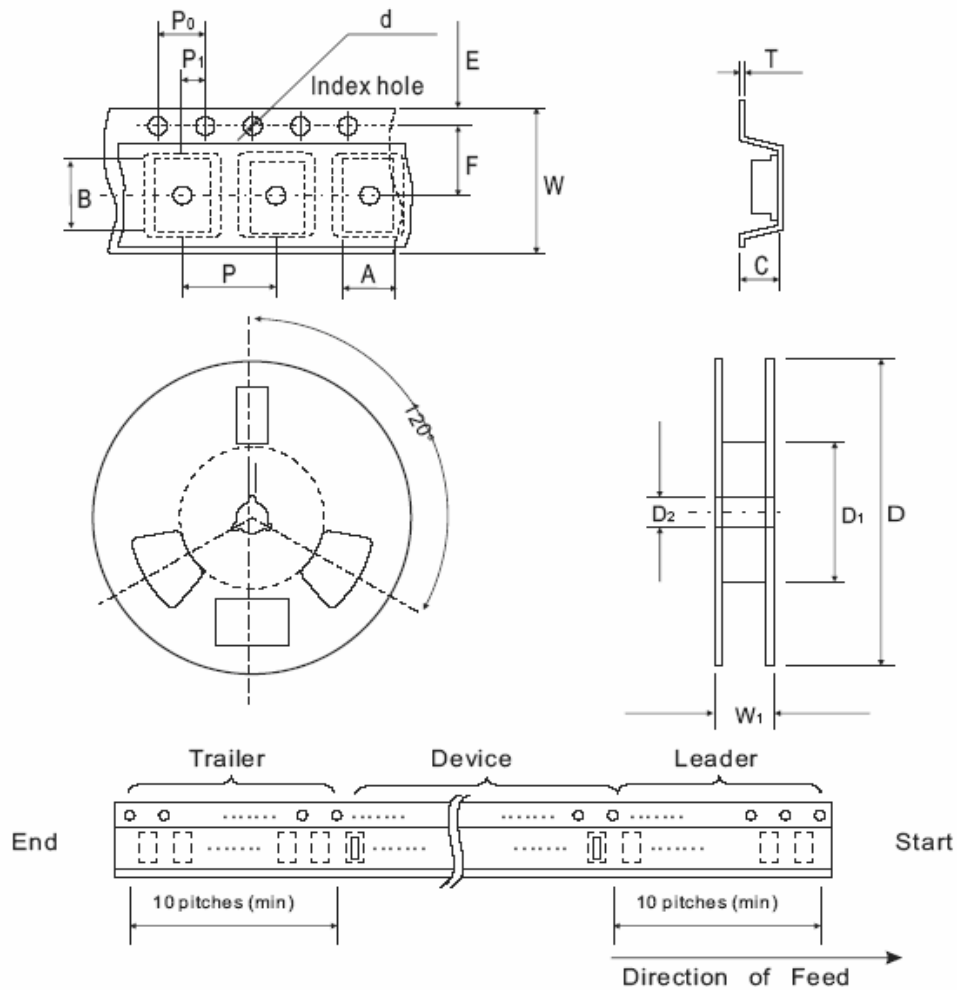
Fig.5 - TLP Measurement





ESD Diode

Packing Specification



Tape & Reel Dimensions

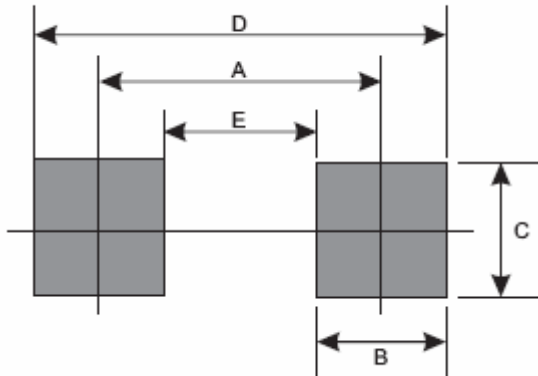
Package	Unit	A	B	C	d	D
DFN1006	mm	0.67±0.10	1.12±0.10	0.60±0.10	1.50±0.10	178±1
	inch	0.026±0.004	0.044±0.004	0.024±0.004	0.060±0.004	7.008±0.04

Package	Unit	D1	D2	E	F	P
DFN1006	mm	60MIN	13.0±0.20	1.75±0.10	3.5±0.10	4.0±0.10
	inch	2.362MIN	0.512±0.008	0.069±0.004	0.138±0.004	0.157±0.004

Package	Unit	P0	P1	T	W	W1
DFN1006	mm	4.0±0.10	2.0±0.10	0.22±0.03	8.0±0.10	10.5±0.5
	inch	0.157±0.004	0.079±0.004	0.009±0.002	0.315±0.004	0.413±0.02

**Standard Package**

Package	Reel Size	Qty/Reel
DFN1006	7"	5,000 pcs

Recommended Soldering Footprint**Reflow Soldering**

Product Size	Dimension/ mm				
	A	B	C	D	E
DFN1006	0.750	0.500	0.700	1.250	0.250
	0.030"	0.020"	0.028"	0.049"	0.010"

Marking Code

Part Number	Marking Code
ESDQR24V0B	E4

Disclaimers

These products are not designed for use in applications where any failure or malfunction may result in personal injury, death or severe property or environmental damage such as medical, military, aircraft, space or life support equipments.

单击下面可查看定价，库存，交付和生命周期等信息

[>>LIZ\(丽智\)](#)