

/ Descriptions

DFN1006-2L ESD
DFN1006-2L Plastic Package 1-Line,Bi-directional , ESD Protection Diode.

/ Features

1ns 20KV IEC61000-4-2 4 ESD
AEC-Q101

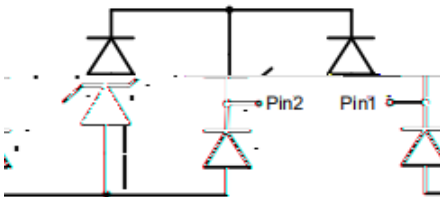
Ultra small package, Response Time is Typically<1ns, ESD>20kV per Human Body Model,IEC61000-4-2 Level 4 ESD Protection,Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

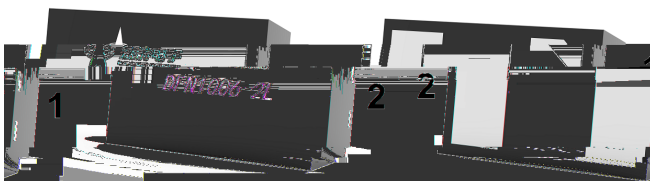
MP3

Suitable for cellular phones audio,MP3 players, Digital cameras, Portable devices, mobile telephone and other users, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning

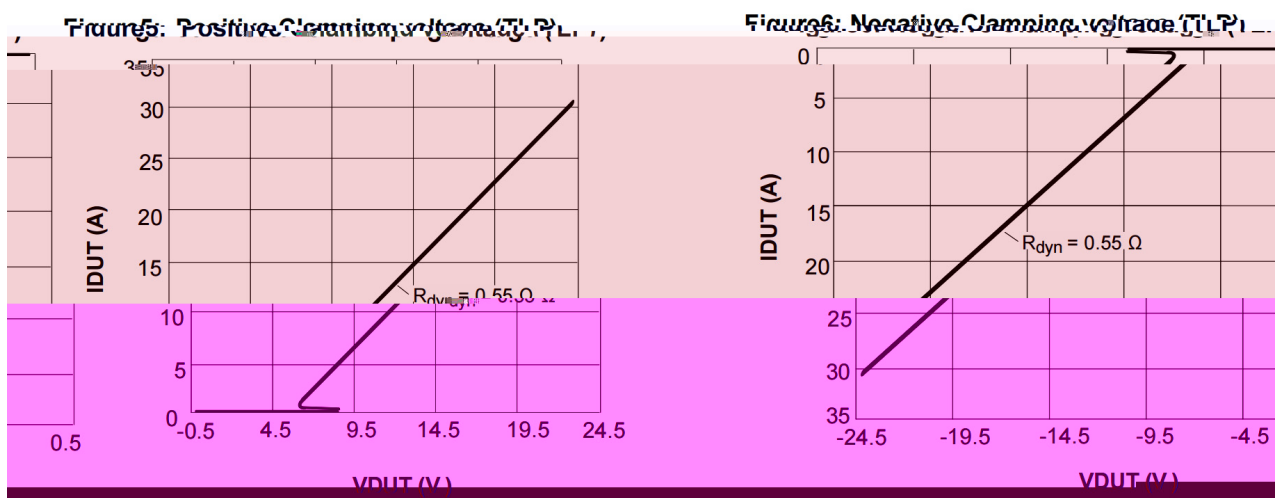
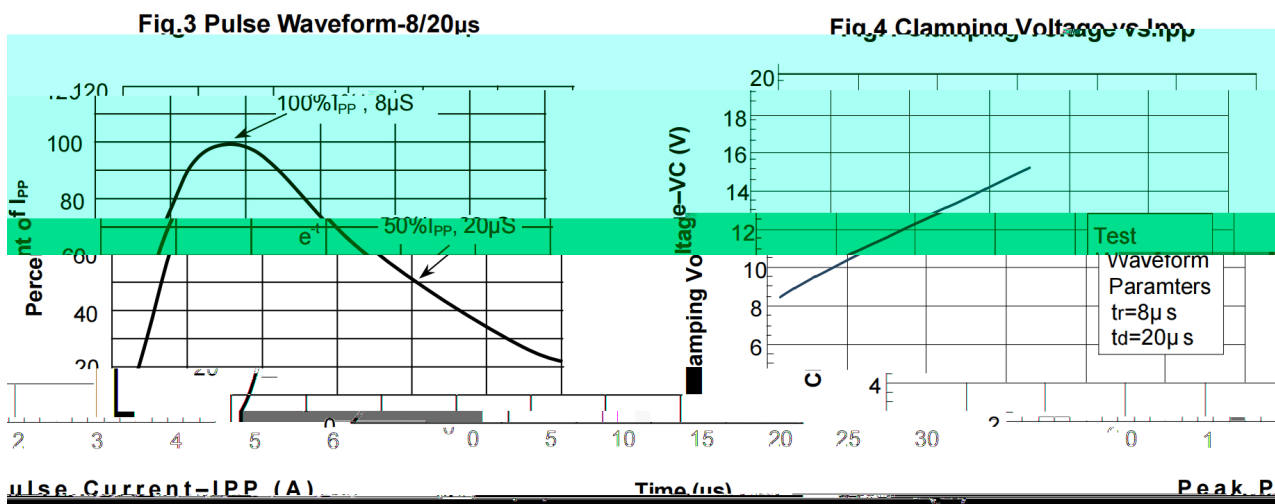
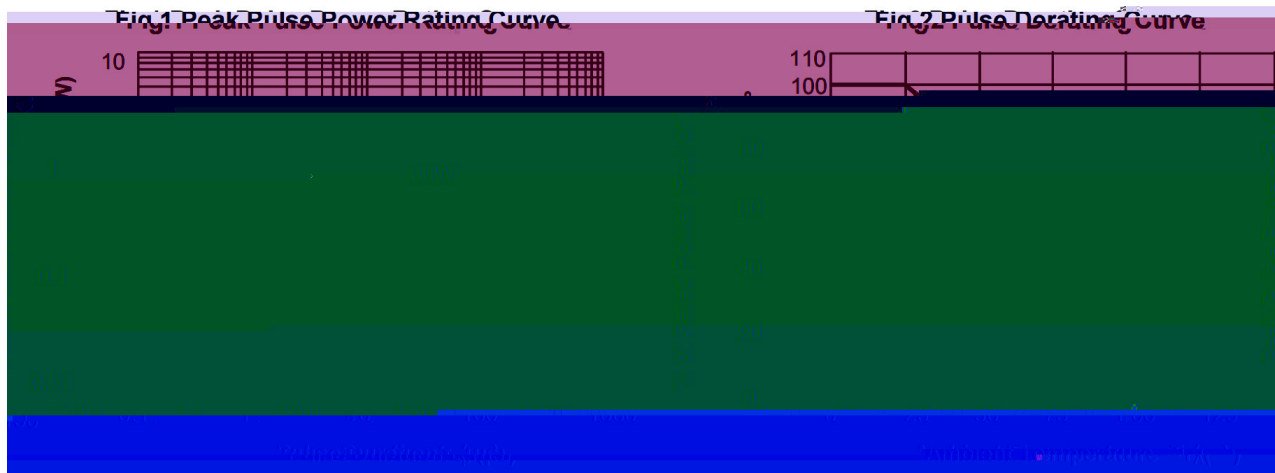


/ Marking

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Peak Pulse Power($t_p = 8/20 \text{ s}$)	P_{PK}	60	W
Peak Pulse Current($t_p = 8/20 \text{ s}$)	I_{PP}	3.5	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 20	KV
ESD according to IEC61000-4-2 contact discharge		± 15	
Junction temperature	T_J	-55~+125	
Storage Temperature	T_{STG}	-55~+150	

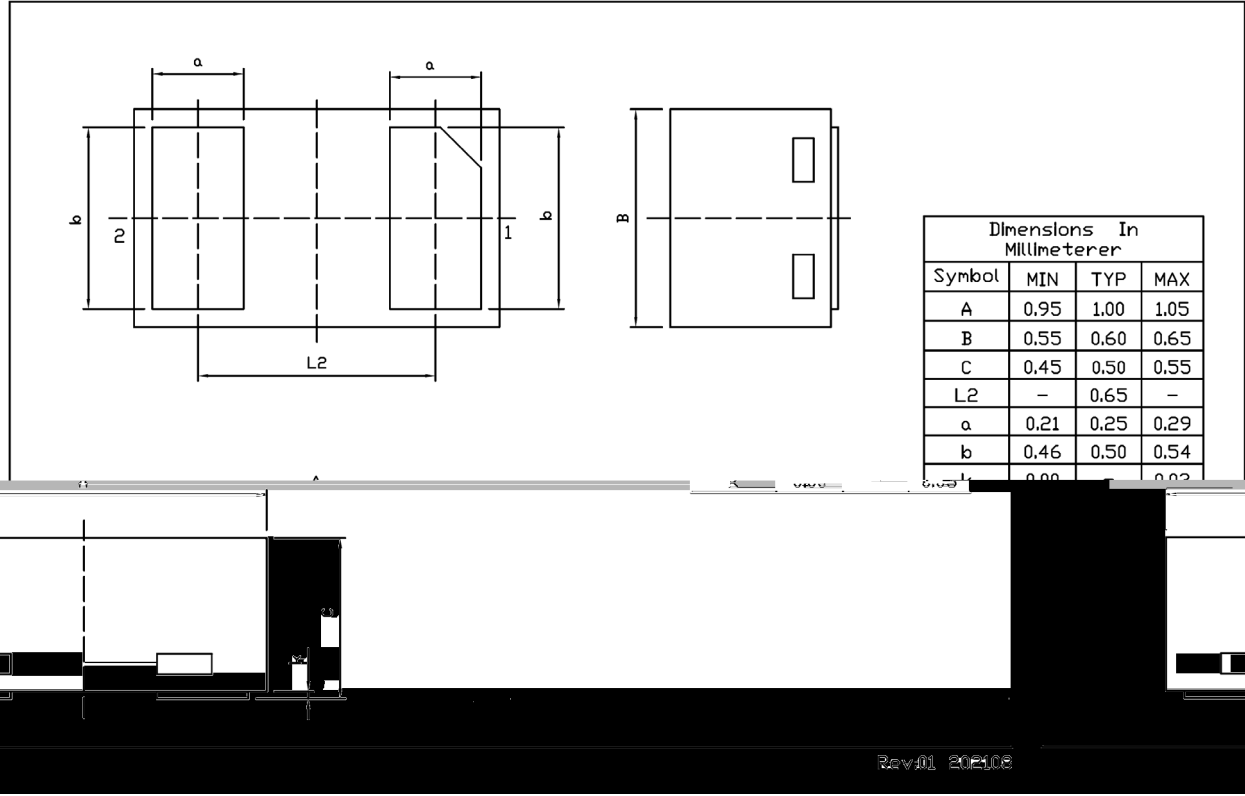
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				3.3	V
Reverse leakage current	I_R	$V_{RWM} = 3.3V$			100	nA
Reverse breakdown voltage ¹⁾	V_{BR}	$I_T = 1mA$	4.2			V
Clamping voltage	V_C	$I_{PP} = 3.5A \quad t_p = 8/20 \text{ s}$		15		V
Clamping voltage(TLP)		$I_{PP} = 16A \quad T_p = 100ns$			15	V
Dynamic Resistance	R_{dyn}	T_P				

/ Electrical Characteristic Curve($T_a=25^\circ\text{C}$)

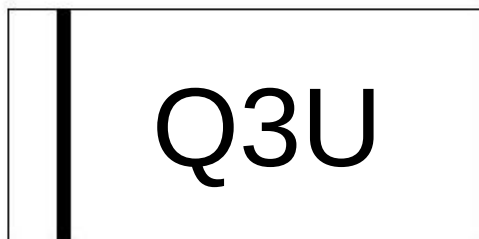
/ Package Dimensions

DFN1006-2L

Unit:mm



/ Marking Instructions



Q

3U

Note

Q Automobile halogen-free product Code

3U Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | |
|---|---------|------------|---|
| 1 | 150 200 | 60 120sec; | 1.Preheating:150~200 , Time:60~120sec. |
| 2 | 255±5 | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 | 2 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec
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/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
DFN1006-2L	10,000	10	100,000	6	600,000	7 ×8	180×120×180	390×385×205

/ Notices