

/ Descriptions

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

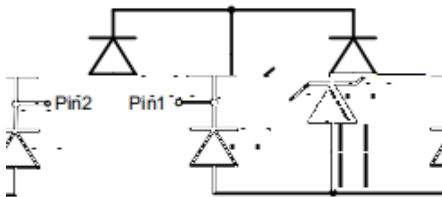
/ Features

,Qualified to AEC-Q101 Standards for High Reliability,
HF Product.

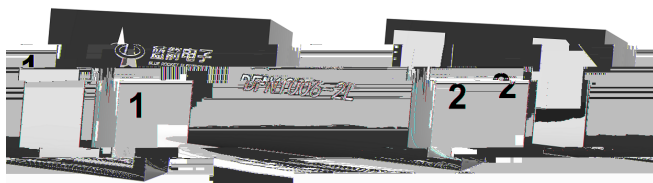
/ Applications

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.

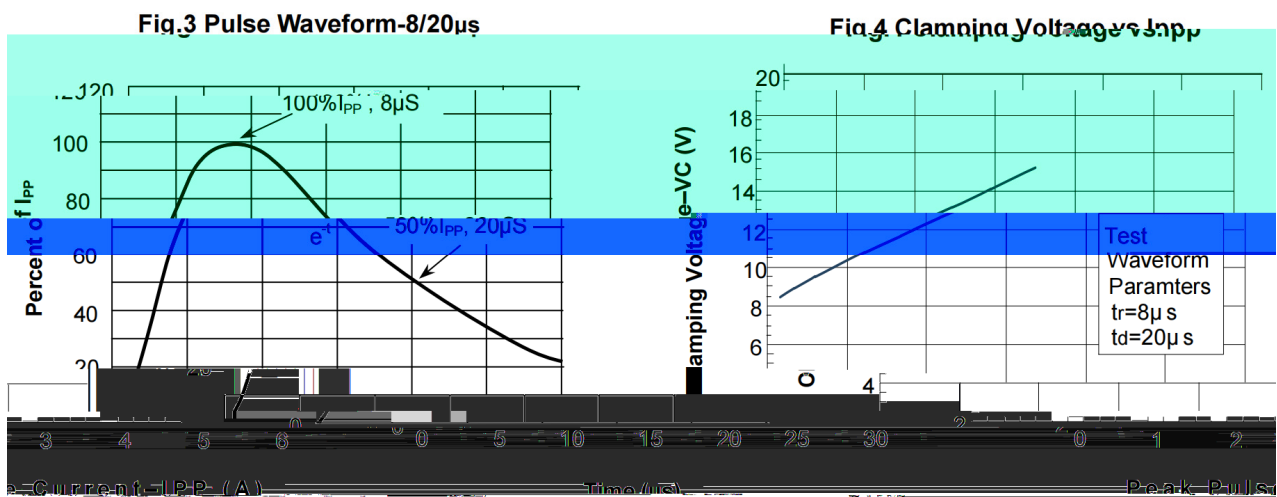
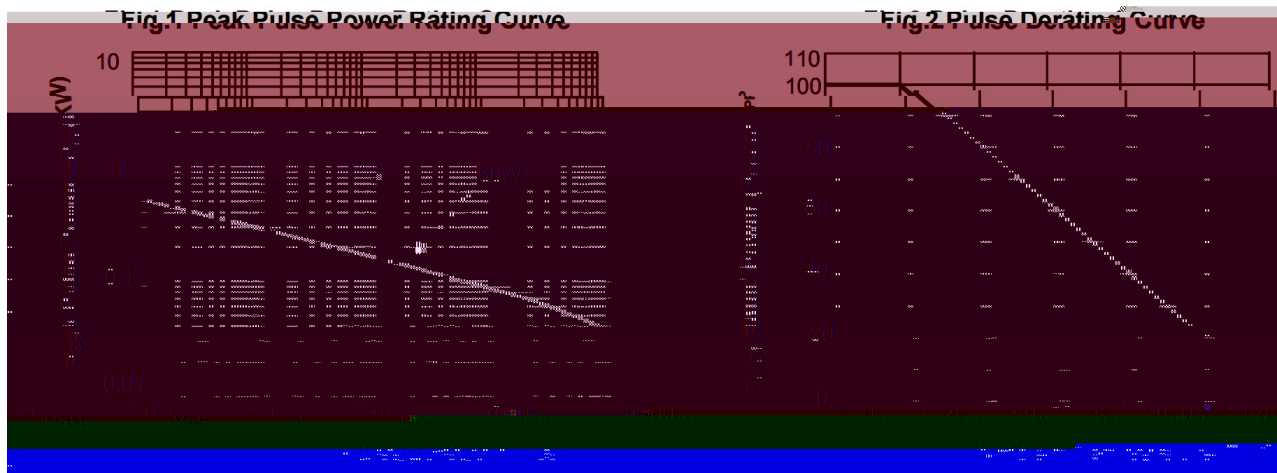
Parameter	Symbol	Rating	Unit
Peak Pulse Power($t_p = 8/20\mu s$)	P_{PK}	60	W
Peak Pulse Current($t_p = 8/20\mu s$)	I_{PP}	3.5	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 20	KV
ESD according to IEC61000-4-2 contact discharge		± 15	
Junction temperature	T_J	-55~+125	
Storage Temperature	T_{STG}	-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	$I_{PP} = 3.5A \quad t_p = 8/20\mu s$		15		V
Clamping voltage(TLP)		$I_{PP} = 16A \quad T_p = 100ns$			15	V

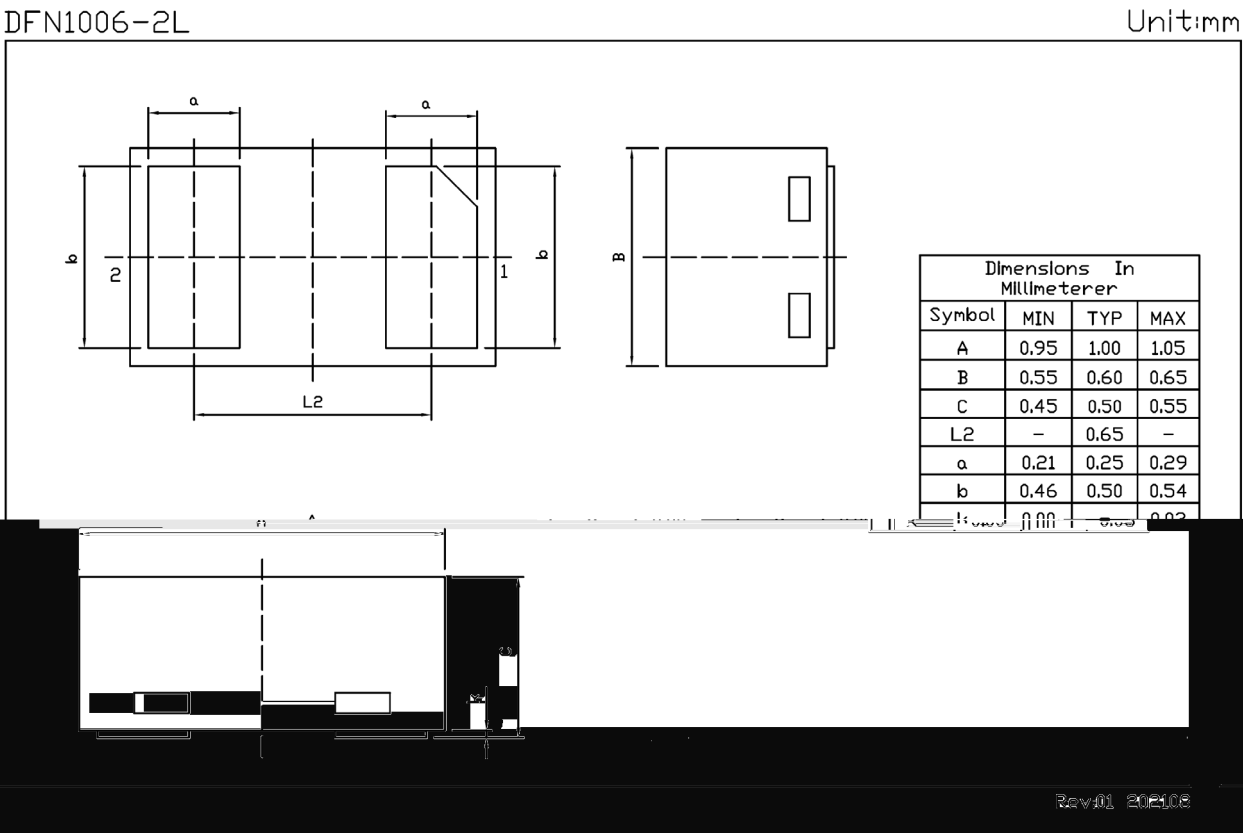
Dynamic Resistance

 R_{dyn} T_P

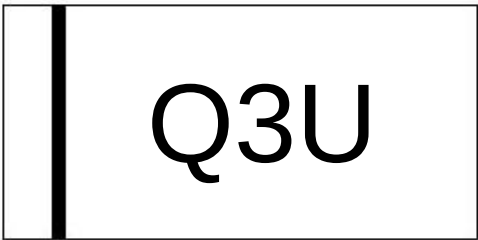
/ Electrical Characteristic Curve($T_a=25^\circ\text{C}$)



/ Package Dimensions



/ Marking Instructions



Q

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