/ 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

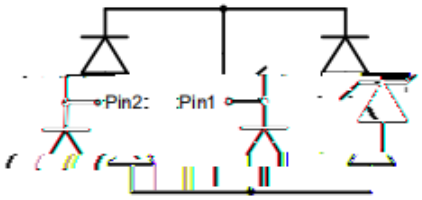
Ultra small package, Response Time is Typically<1ns, ESD>20kV per Human Body Model,IEC61000−4−2 Level 4 ESD Protection,Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ 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



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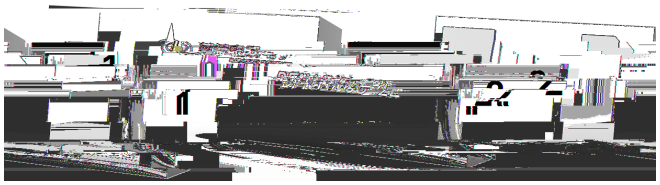


/ Marking

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Peak Pulse Power(t_p = 8/20 s)	P_{PK}	60	W
Peak Pulse Current(t_p = 8/20 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 t_p = 8/20 s		15		V
Clamping voltage(TLP)		I_{PP} = 16A T_p = 100ns			15	V
Dynamic Resistance	R_{dyn}	T_P				

/ Electrical Characteristic Curve(Ta=25)

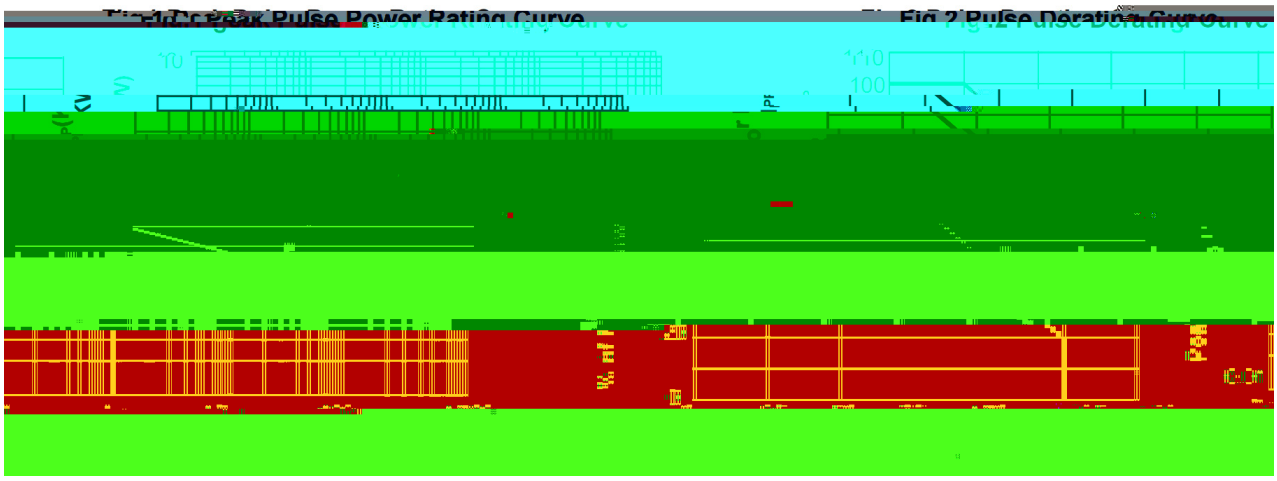
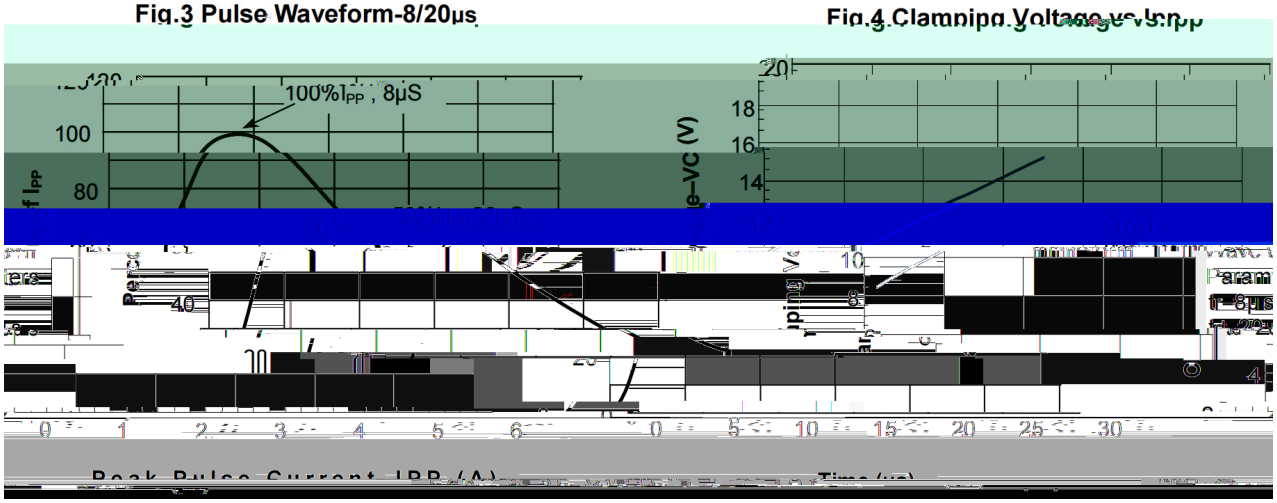
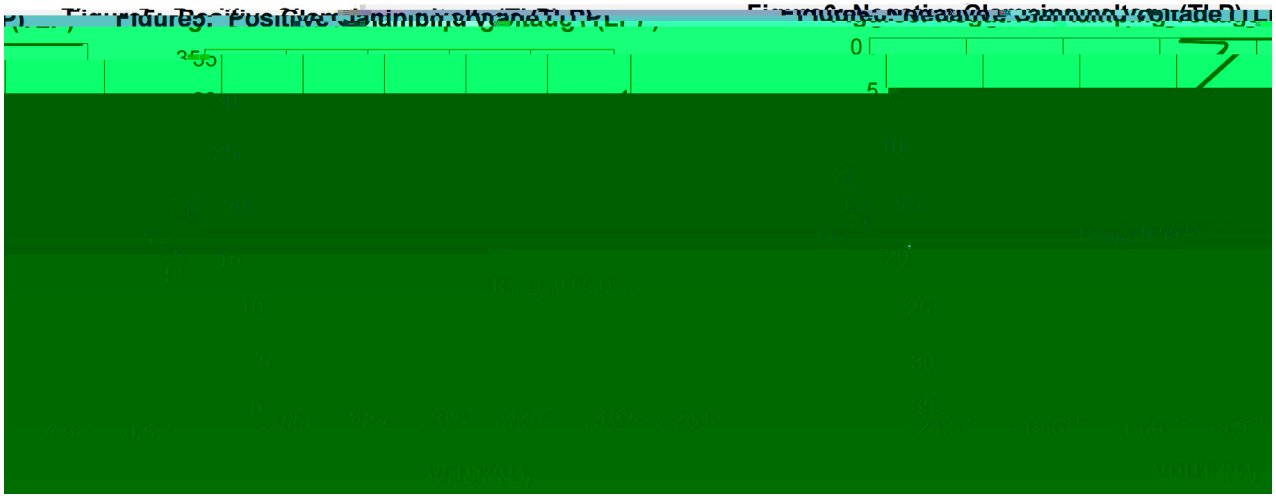


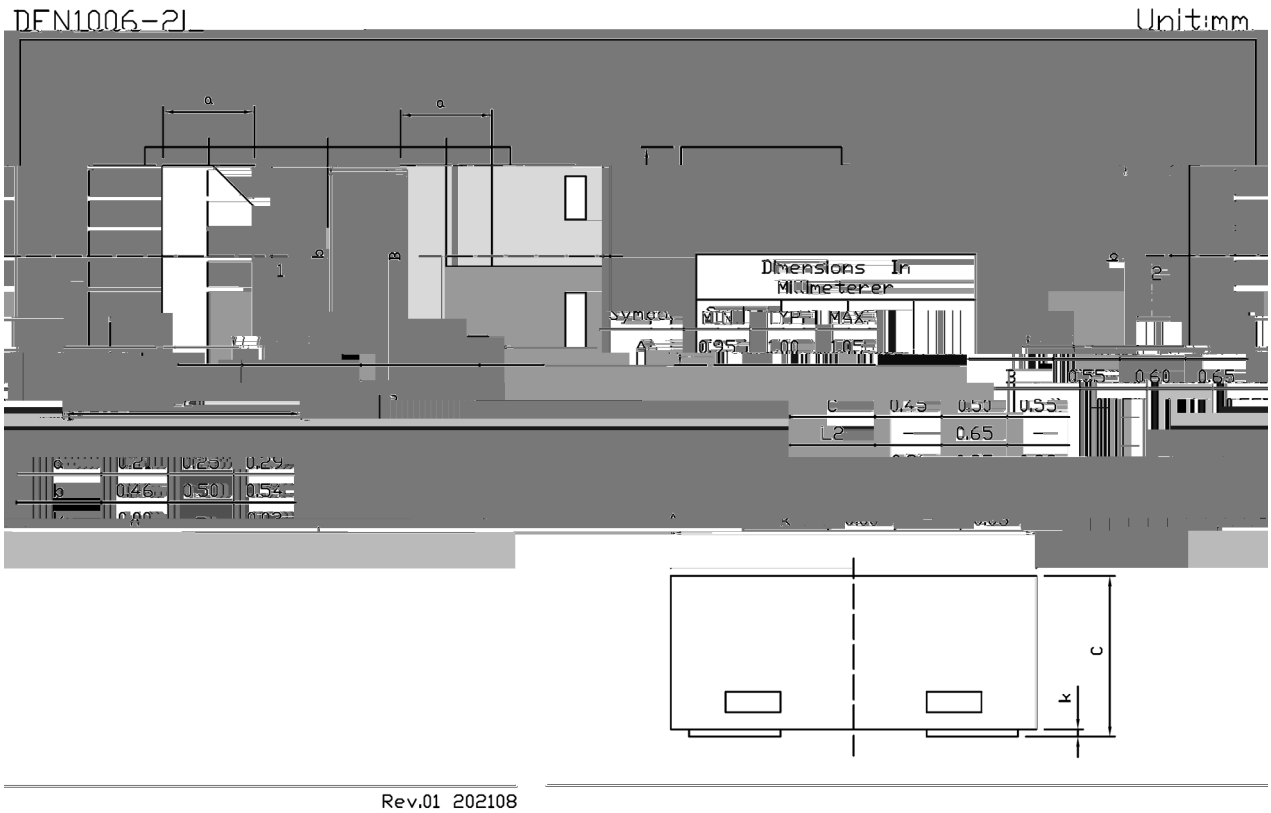
Fig.3 Pulse Waveform-8/20μs

Fig.4 Clamping Voltage vs Ipp

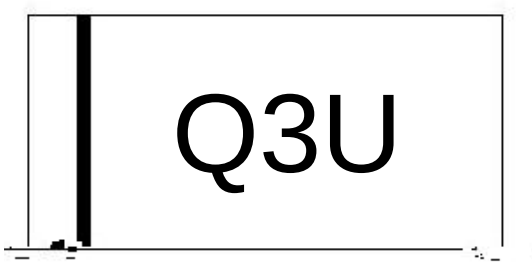




/ Package Dimensions



/ Marking Instructions



Q

3U

Note

Q	Automobile halogen-free product Code
3U	Product Type Code