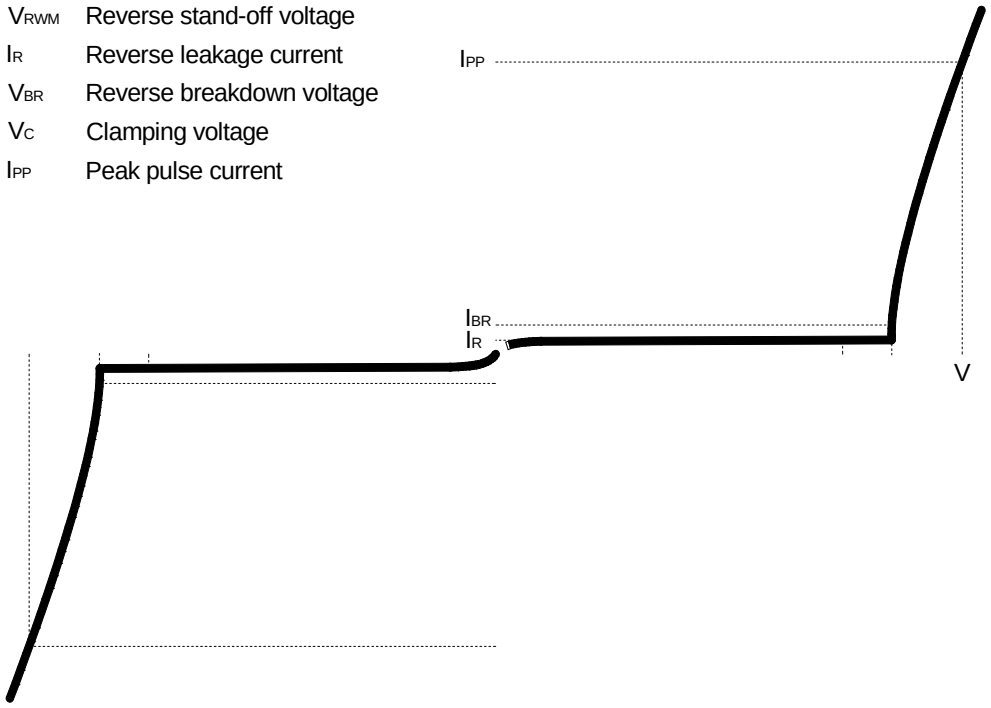
- Transient protection for each line according to
  IEC61000-4-2(ESD):
  IEC61000-4-5:
- Low leakage current
- Ultra low clamping voltage
- RoHS Compliant
- Part no. with suffix “Q” means AEC-Q101 qualified
-

- Package: DFN1006-2L
- Lead F1008-2 Ŝ ņ

V_{RWM}	Reverse stand-off voltage
I_R	Reverse leakage current
V_{BR}	Reverse breakdown voltage
V_C	Clamping voltage
I_{PP}	Peak pulse current



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Peak pulse power (t_p = 8/20μs)	P_{pk}	150	W
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	T_J	-55~150	
Storage temperature	T_{STG}	-55~150	

Notes:

CAUTION: Stresses above those listed in “Absolute Maximum Ratings” may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

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Reverse Standoff Voltage	V_{RWM}	V				12
Reverse breakdown voltage	V_{BR}	V	I_{BR} = 1mA	13.5		16.5
Reverse leakage current	I_R	uA	V_{RWM} = 12V			0.5
Clamping voltage [1)]	V_C	V	I_{PP} = 1A, t_p = 8/20μs		18	20
			I_{PP} = 5A, t_p = 8/20μs		27	30
Dynamic resistance [2)]	R_{DYN}	Ω	TLP, tp=100ns, I/O to Ground		0.8	
	I_{PP}	A	t_p = 8/20μs			5
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz		12	

Notes:

(1). Non-repetitive current pulse, according to IEC61000-4-5.

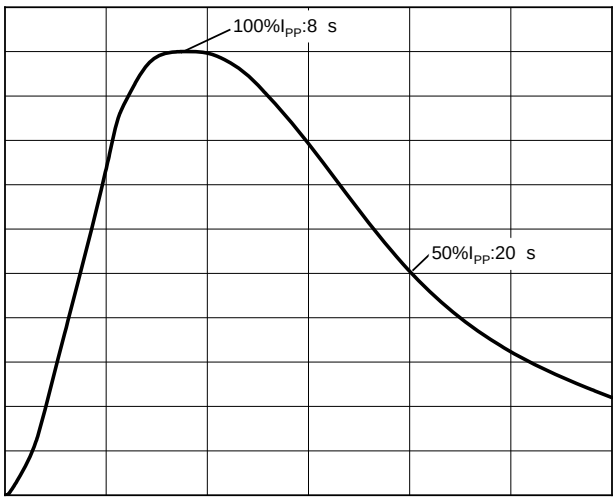
(2). TLP parameter: Z0 = 50Ω, tp = 100ns, tr = 2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.

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ESD12VLBQ	F1	Approximate 0.9	10K	100K	400K	Tape&Reel

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Fig.1: 8/20μs Pulse Waveform



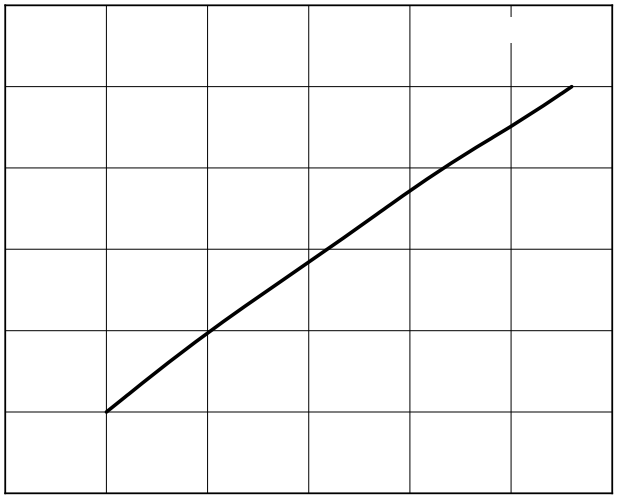
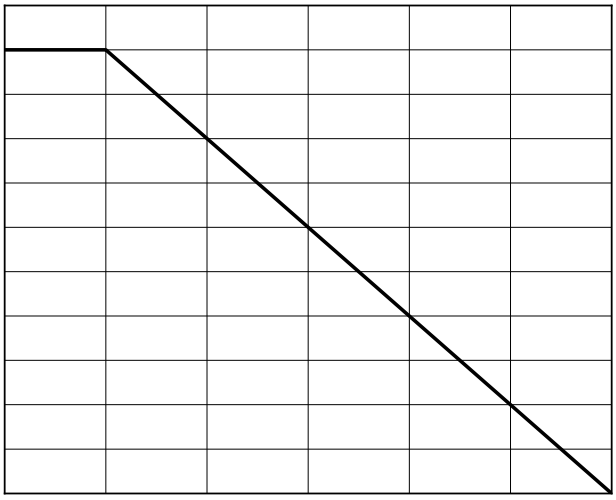
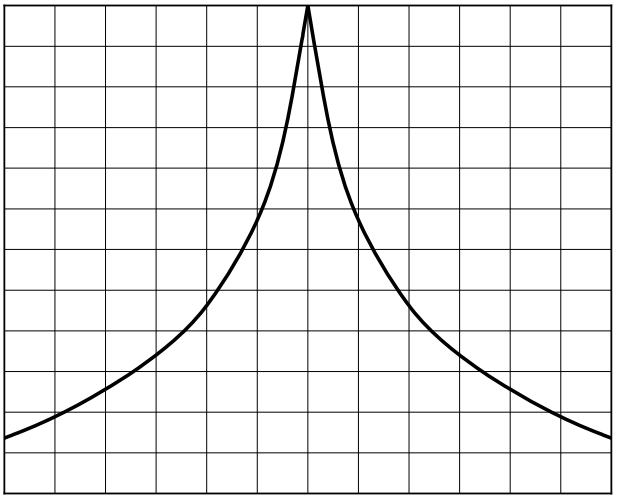
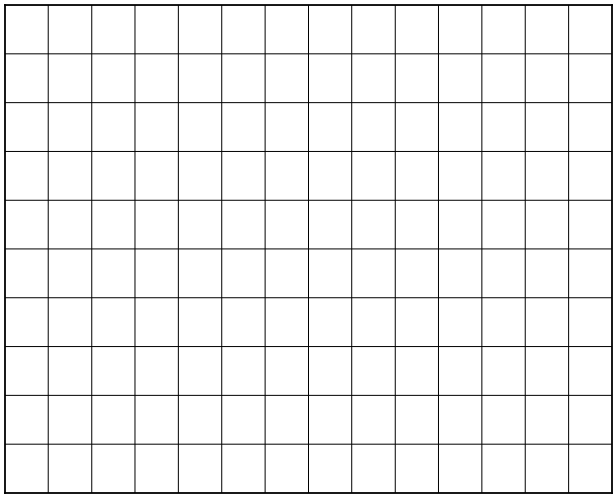


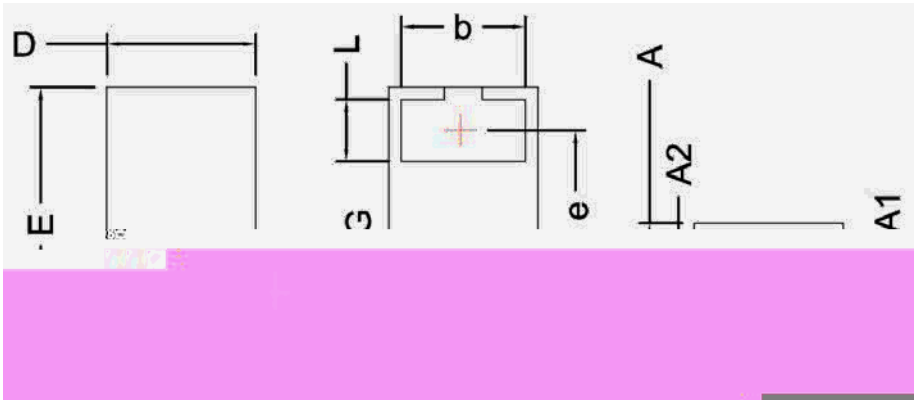
Fig.3: Power Derating Curve



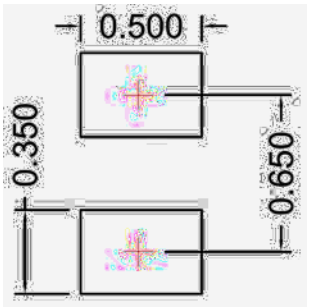




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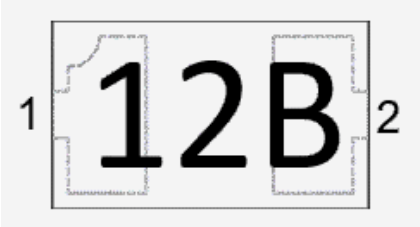


SYMBOL	MILLIMETER		
	MIN	NOM	MAX
D	0.50	0.60	0.70
E	0.90	1.00	1.10
A	0.35	0.45	0.55
A1		0.15 BSC	
A2			0.10
F	0.005		
G	0.005		
L	0.15	0.25	0.35
b	0.41	0.50	0.59
e		0.65 BSC	



Unit mm

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Note:
1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black