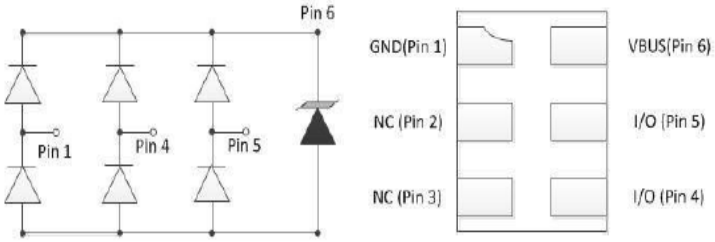
DFN1109-6L



Features

70Watts peak pulse power(tp=8/20us)
Low clamping voltage
Low leakage current
Glass passivated junction
Low capacitance
Protect up to 2-lines
IEC 61000-4-2 ±8KV contact ± 15KV air
Halogen free and RoHS compliant

Mechanical Data

CASE: DFN1109 Molded Plastic
Molding compound flammability rating: UL 94V-0
Mounting Position:Any

Making Code & Ordering information

52N

Ordercode	Package	Base qty	Deliverymode
PDF1109R05A2	DFN1109	3000	Tape and reel

Maximum Ratings & Thermal Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified.)

Rating	Symbol	Value	Units
Peak Pulse Power (t_p =8/20μs)	P_{PP}	70	Watts
Peak Pulse Current (t_p =8/20μs)(note1)	I_{pp}	3.5	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	15 8	kV
Lead Soldering Temperature	T_L	260(10seconds)	℃
Junction Temperature	T_J	-55 to + 125	℃
Storage Temperature	T_{stg}	-55 to + 125	℃

Electrical Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified).

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	I_T=1mA	6.0	7.2	9.5	V
Reverse Leakage Current	I_R	V_{RWM}=5V,T=25℃		0.1	0.5	μA
Peak Pulse Current	I_{PP}	tp =8/20μs			3.5	A
Clamping Voltage	V_C	IPP=3.5A,tp=8/20μs			20	V
Junction Capacitance	C_j	V_R = 0V, f = 1MHz I/O to I/O		0.28	0.4	pF
		V_R = 0V, f = 1MHz I/O to GND		0.28	0.4	pF

Ratings and Characteristic Curves

（Ratings at 25℃ ambient temperature unless otherwise specified).

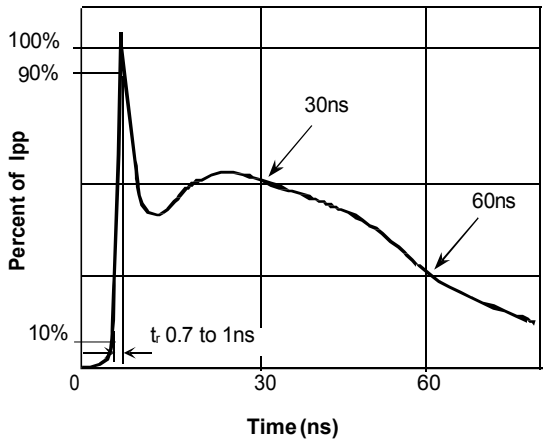


Fig.1 IEC61000-4-2Waveform

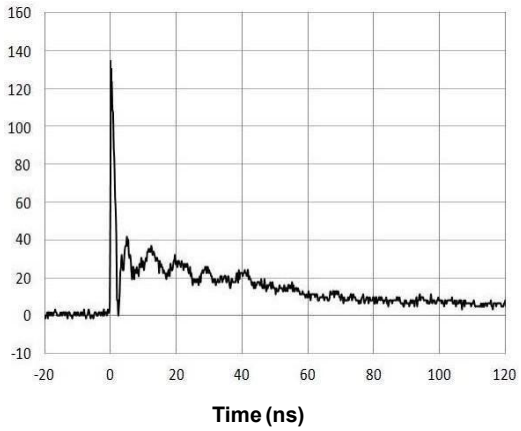


Fig.2 IEC61000-4-2 +8kV ContactESD ClampingWaveform

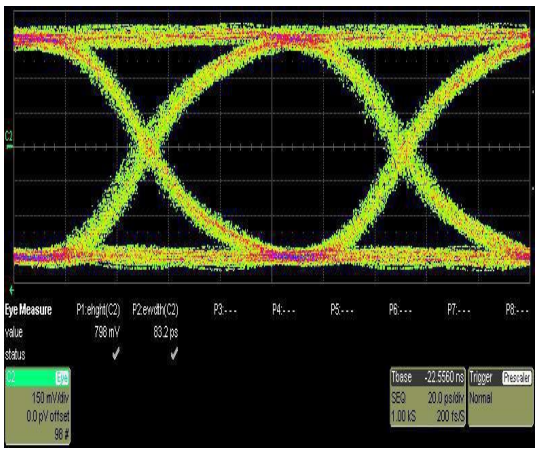


Fig.3 Eye Diagram - perchannel

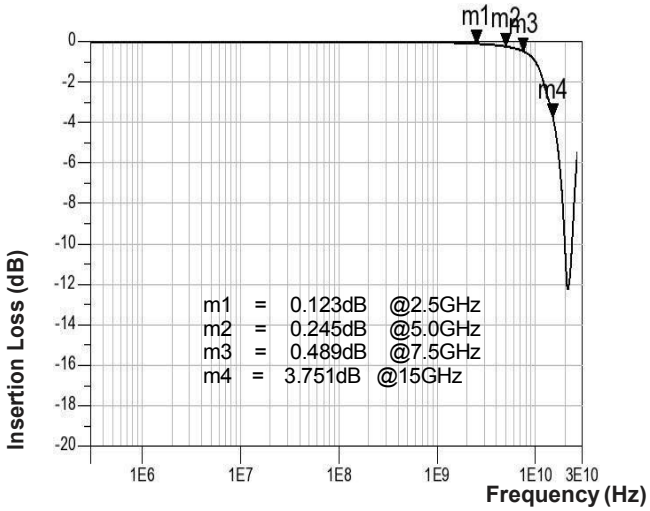
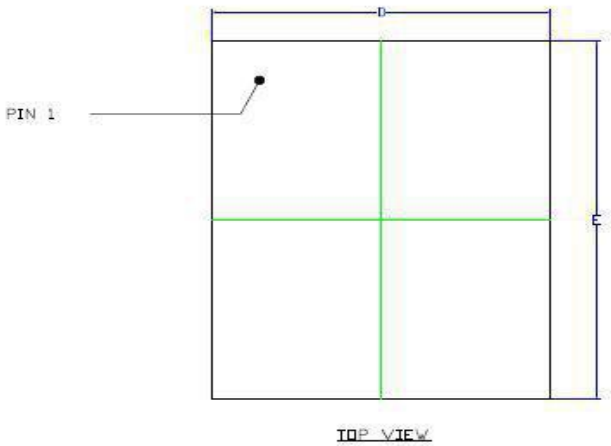
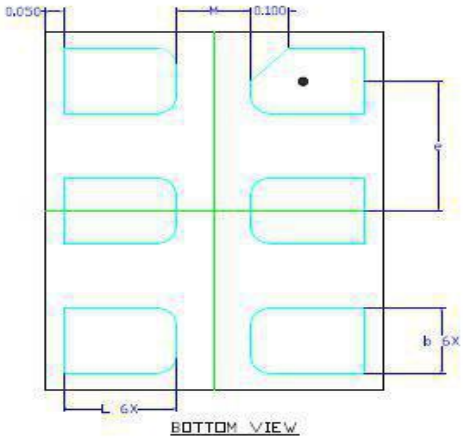
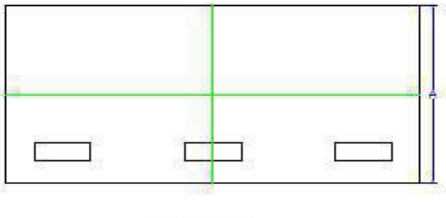


Fig.4 Insertion Loss S21 - I/O tol/O

Package Outline Dimensions: DFN1109







,

COMMON DIMENSION (MM)			
PKG	DFN1109		
REF.	MIN.	NOM.	MAX
A	0.40	0.45	0.50
D	0.85	0.90	0.95
E	1.05	1.10	1.15
b	0.15	0.20	0.25
L	0.25	0.30	0.35
e	0.35	0.40	0.45
M	0.15	0.20	0.25

.