

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Ultra Low Capacitance : 0.14pF(typ.)
- Operating Voltage : 3.3V
- IEC 61000-4-2 (ESD) : ± 20 kV (air)
- IEC 61000-4-2 (ESD) : ± 20 kV (contact)
- IEC 61000-4-4 (EFT) : 40A (5/50ns)

DFN0201



MARKING



PACKAGE INFORMATION

Package	MPQ	Leader Size
DFN0201	9K	7 inch

ORDER INFORMATION

Part Number	Type
SNESDL03C-C	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

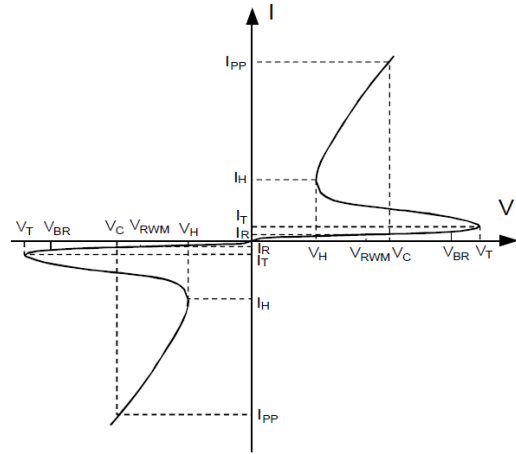
Parameter	Symbol	Rating	Unit
IEC 61000-4-2 ESD Voltage	Air	± 20	KV
	Contact	± 20	
Peak Pulse Power	P _{PP}	50	W
Peak Pulse Current	I _{PP}	9	A
Operating and Storage Temperature Range	T _J , T _{STG}	-55~125, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted.)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Working Voltage	V _{RWM}	-	-	3.3	V	
Breakdown Voltage	V _(BR)	6	-	-	V	I _T =1mA
Clamping Voltage (8/20 μ s)	V _C	-	3.2	4	V	I _{PP} =1A
		-	5.5	8		I _{PP} =9A
ESD Clamping Voltage (TLP=0.2/100ns)	V _C	-	4.5	-	V	I _{TLP} =8A
		-	6.5	-		I _{TLP} =16A
Reverse leakage current	I _R	-	-	0.01	μ A	V _{RWM} =3.3V
Dynamic Resistance	R _{DYN}	-	0.23	-	Ω	TLP=0.2/100ns
Junction Capacitance	C _J	-	0.14	0.18	pF	V _R =1V, f=1MHz
		-	0.13	-		V _R =1V, f=1GHz

ELECTRICAL PARAMETER

Parameter	Symbol
Reverse Peak Pulse Current	I_{PP}
Clamping Voltage @ I_{PP}	V_C
Reverse Stand-Off Voltage	V_{RWM}
Reverse Leakage Current @ V_{RWM}	I_R
Breakdown Voltage @ I_T	V_{BR}
Test Voltage	V_T
Test Current	I_T
Holding Voltage	V_H
Holding Current	I_H



TYPICAL CHARACTERISTICS

FIG. 1-Power Derating Curve

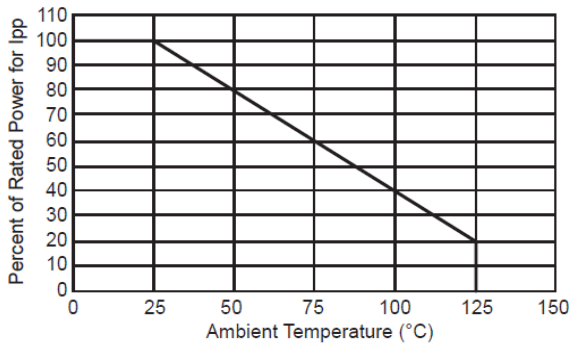


FIG. 2-Clamping Voltage vs. Peak Pulse Current

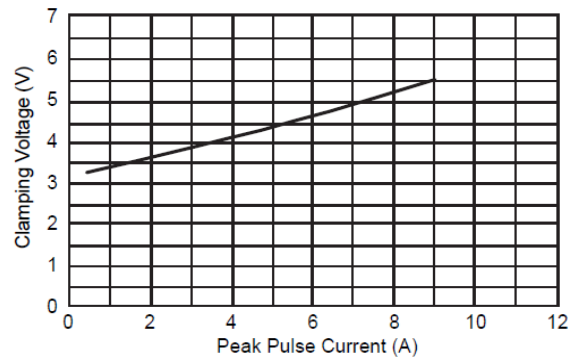


FIG. 3-Insertion Loss S21

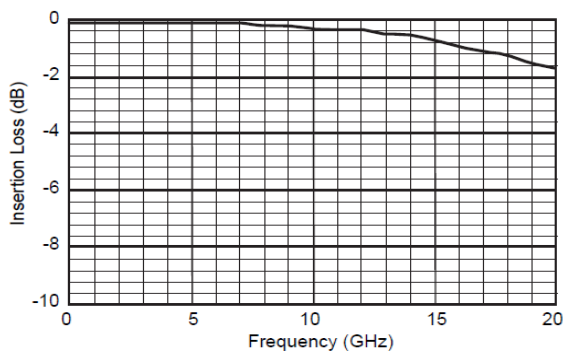


FIG. 4-8/20us Pulse Waveform

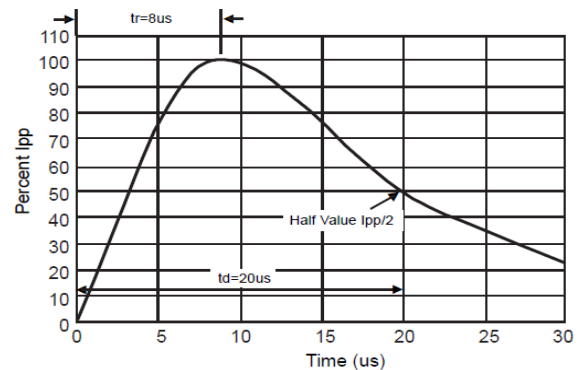
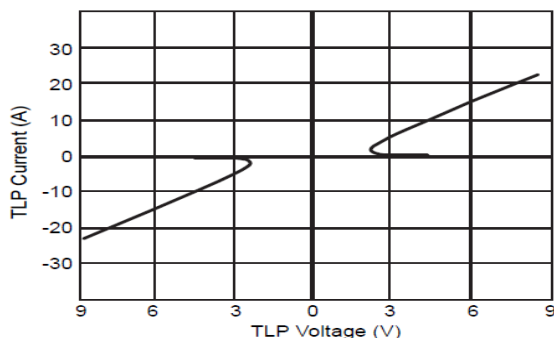
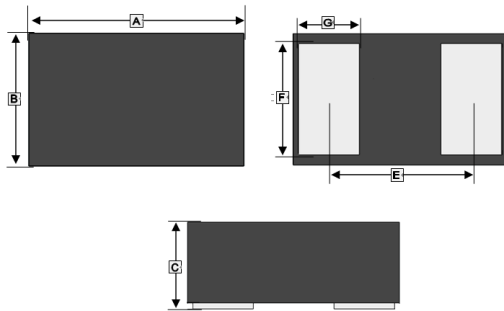


FIG. 5-TLP I-V Curve



PACKAGE OUTLINE DIMENSIONS

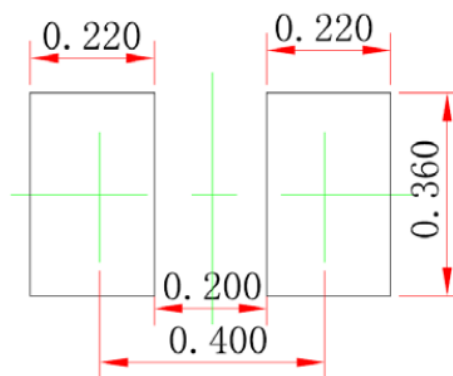
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REF.	Millimeter	
	Min.	Max.
A	0.55	0.67
B	0.25	0.37
C	0.23	0.35
D	-	
E	0.35 BSC.	
F	0.20	0.30
G	0.105	0.24

MOUNTING PAD LAYOUT

DFN0201



*Dimensions in millimeters