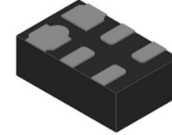


RoHS Compliant Product
A suffix of "-C" specifies halogen and lead-free

FEATURES

- Protects Two Lines
- Low Clamping Voltage
- Ultra Low Leakage

DFN1610-6L



APPLICATION

- MDDI Ports
- Video Interface
- USB Ports
- Cellular Handsets and Accessories
- 1G / 2.5G / 5G / 10G Ethernet
- RJ-45 Connectors

MARKING

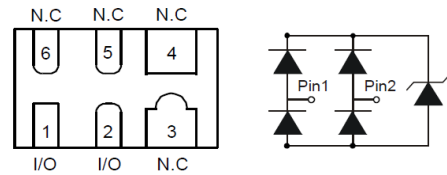
3382P

PACKAGE INFORMATION

Package	MPQ	Leader Size
DFN1610-6L	3K	7 inch

ORDER INFORMATION

Part Number	Type
SJESDL03-C	Lead (Pb)-free and Halogen-free



ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted.)

Parameter	Symbol	Ratings	Unit
ESD Rating per IEC61000-4-2	Air	± 30	kV
	Contact	± 30	
Peak Pulse Power @ $t_p=8/20\mu\text{s}$	P_{PP}	250	W
Peak Pulse Current @ $t_p=8/20\mu\text{s}$	I_{PP}	15	A
Operating Junction & Storage Temperature Range	T_J, T_{STG}	-55~125, -55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted.)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Working Voltage ¹	V_{RWM}	-	-	3.3	V	
Breakdown Voltage ¹	$V_{(BR)}$	3.8	-	6		$I_T=2\mu\text{A}$
		4	-	6.2		$I_T=50\text{mA}$
Reverse Leakage Current	I_R	-	-	50	nA	$V_{RWM}=3.3\text{V}$
Surge Clamping Voltage ¹ @ $t_p=8/20\mu\text{s}$	V_C	-	-	8	V	$I_{PP}=1\text{A}$
		-	-	17		$I_{PP}=15\text{A}$
Dynamic Resistance ¹	R_{DYN}	-	0.3	-	Ω	$TLP=0.2/100\text{ns}$
ESD Clamping Voltage ¹ @ $TLP=0.2/100\text{ns}$	V_C	-	7	-	V	$I_{TLP}=4\text{A}$
		-	10.5	-		$I_{TLP}=16\text{A}$
Junction Capacitance ¹	C_J	-	0.35	-	pF	$V_R=0\text{V}, f=1\text{MHz}$

Note:
1. Pin1 to Pin2.

TYPICAL CHARACTERISTICS

FIG. 1-Power Derating Curve

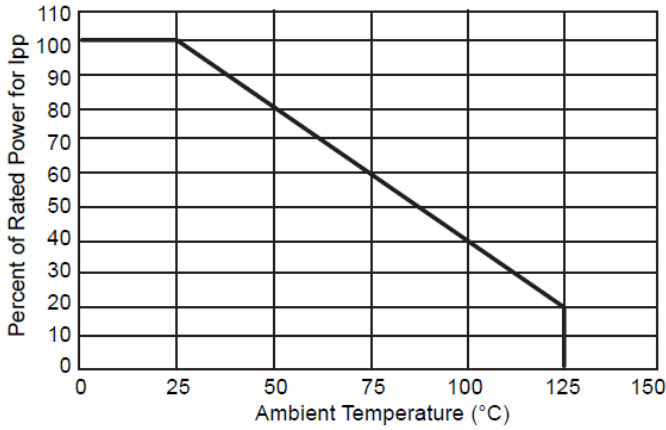


FIG. 2-Clamping Voltage

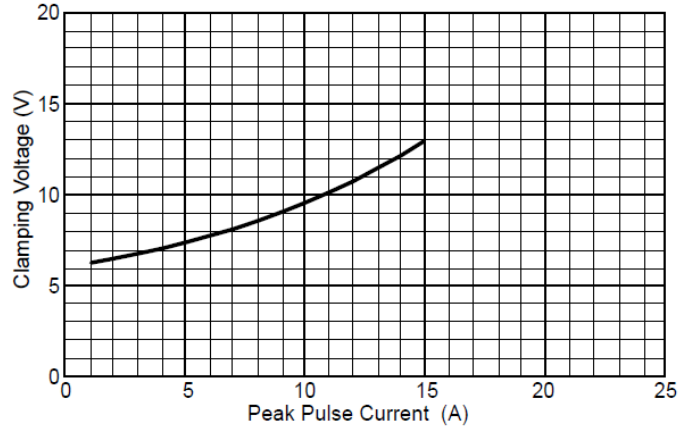


FIG. 3-Junction Capacitance

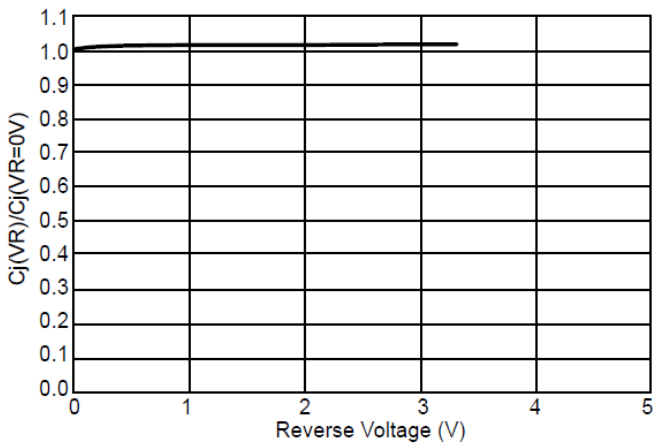


FIG. 4-Pulse Waveform (8/20us)

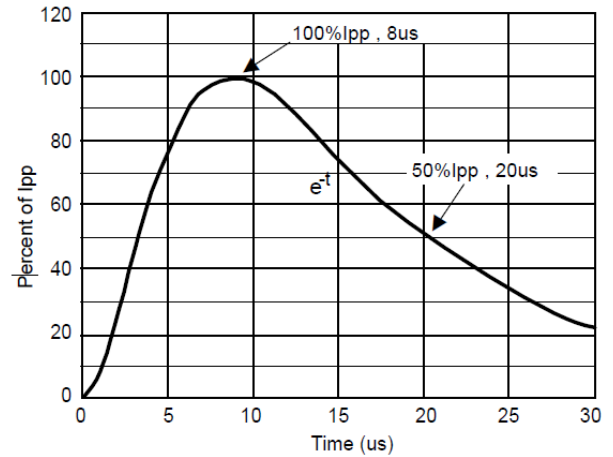
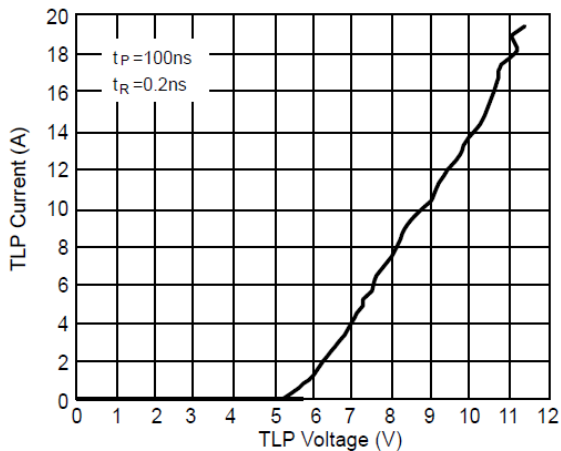
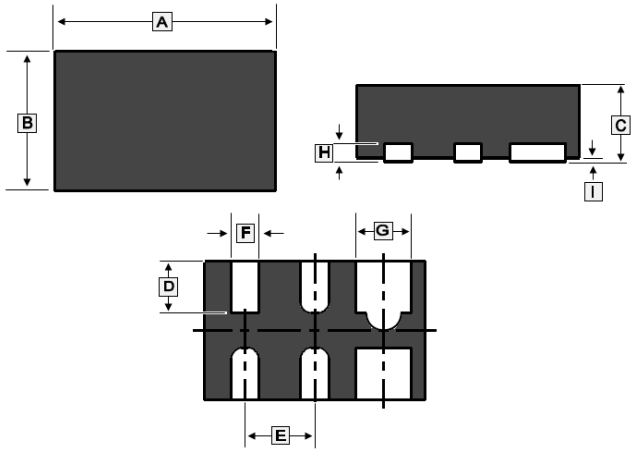


FIG. 5-TLP I-V Curve



PACKAGE OUTLINE DIMENSIONS

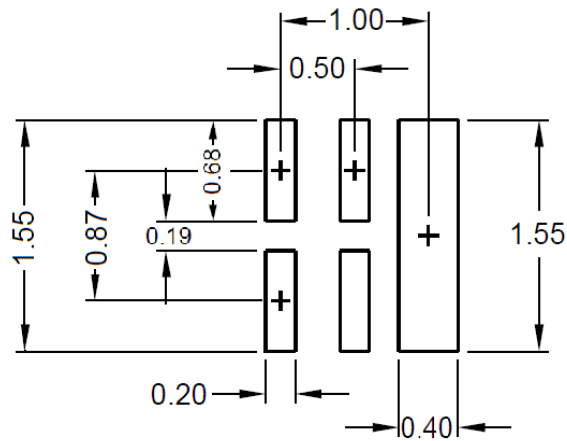
DFN1610-6L



REF.	Millimeter	
	Min.	Max.
A	1.50	1.70
B	0.90	1.10
C	0.45	0.65
D	0.49 REF.	
E	0.50 BSC.	
F	0.10	0.30
G	0.20	0.45
H	0.13 TYP	
I	0.00	0.05

MOUNTING PAD LAYOUT

DFN1610-6L



*Dimensions in millimeters