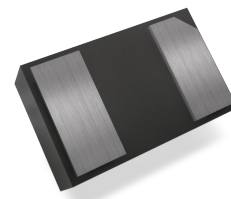


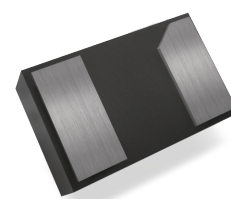
Protection in Portable Electronics Applications.

FEATURES

- Transient protection for data lines to
-IEC61000-4-5(Lightning) : 25A(tp=8/20 μ s)
- Small package for use in portable electronics.
- Protects on power line.
- Low clamping voltage.
- Low leakage current
- Suffix U : Qualified to AEC-Q101.
ex) PG18HS1610D2-RTL/HU
- Suffix K : DFN1610-2L(1)
ex) PG18HS1610D2-RTL/HK



DFN1610-2L (Leadless-Type)



DFN1610-2L(1) (Leadless-Type)

PRODUCT DESCRIPTION

- Molding compound flammability rating : UL 94V-0
- Pb-Free, Halogen-Free, RoHs Compliant

Package dimensions (DFN1610-2L)	Package dimensions (DFN1610-2L(1))	Pin configurations (Uni-directional)																																																																
<table><tr><th>DIM</th><th colspan="3">MILLIMETERS</th></tr><tr><th></th><th>MIN</th><th>NOM</th><th>MAX</th></tr><tr><td>A</td><td>1.55</td><td>1.60</td><td>1.65</td></tr><tr><td>B</td><td>0.95</td><td>1.00</td><td>1.05</td></tr><tr><td>C</td><td>0.51</td><td>0.55</td><td>0.60</td></tr><tr><td>D</td><td>0.75</td><td>0.80</td><td>0.85</td></tr><tr><td>E</td><td>0.30</td><td>0.35</td><td>0.40</td></tr><tr><td>F</td><td colspan="3">1.05 BSC</td></tr></table>	DIM	MILLIMETERS				MIN	NOM	MAX	A	1.55	1.60	1.65	B	0.95	1.00	1.05	C	0.51	0.55	0.60	D	0.75	0.80	0.85	E	0.30	0.35	0.40	F	1.05 BSC			<table><tr><th>DIM</th><th colspan="3">MILLIMETERS</th></tr><tr><th></th><th>MIN</th><th>NOM</th><th>MAX</th></tr><tr><td>A</td><td>1.55</td><td>1.60</td><td>1.65</td></tr><tr><td>B</td><td>0.95</td><td>1.00</td><td>1.05</td></tr><tr><td>C</td><td>0.45</td><td>0.50</td><td>0.55</td></tr><tr><td>D</td><td>0.75</td><td>0.80</td><td>0.85</td></tr><tr><td>E</td><td>0.35</td><td>0.40</td><td>0.45</td></tr><tr><td>F</td><td colspan="3">1.10 BSC</td></tr></table>	DIM	MILLIMETERS				MIN	NOM	MAX	A	1.55	1.60	1.65	B	0.95	1.00	1.05	C	0.45	0.50	0.55	D	0.75	0.80	0.85	E	0.35	0.40	0.45	F	1.10 BSC			1. ANODE 2. CATHODE
DIM	MILLIMETERS																																																																	
	MIN	NOM	MAX																																																															
A	1.55	1.60	1.65																																																															
B	0.95	1.00	1.05																																																															
C	0.51	0.55	0.60																																																															
D	0.75	0.80	0.85																																																															
E	0.30	0.35	0.40																																																															
F	1.05 BSC																																																																	
DIM	MILLIMETERS																																																																	
	MIN	NOM	MAX																																																															
A	1.55	1.60	1.65																																																															
B	0.95	1.00	1.05																																																															
C	0.45	0.50	0.55																																																															
D	0.75	0.80	0.85																																																															
E	0.35	0.40	0.45																																																															
F	1.10 BSC																																																																	

ORDERING INFORMATION

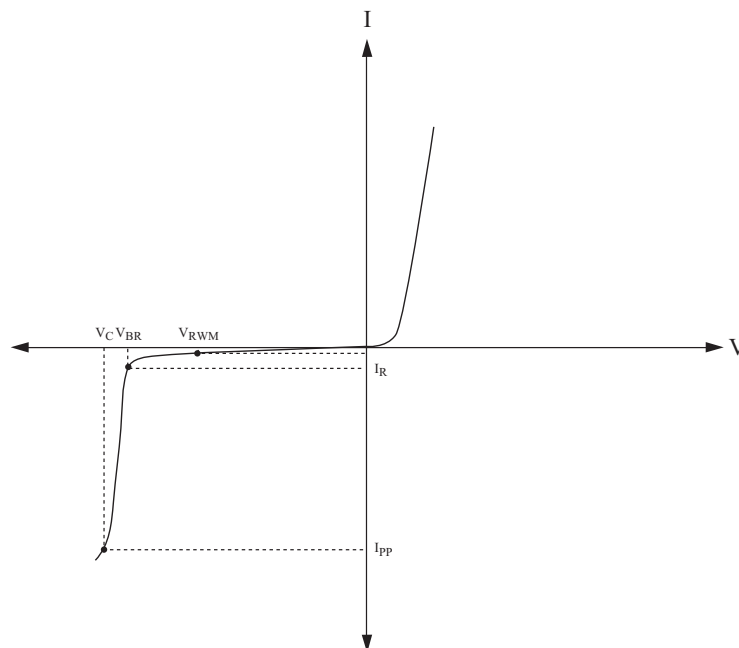
Part Number	Qty per Reel	Reel Size	Marking code
PG18HS1610D2-RTL	8,000	7 inch	KD

PG18HS1610D2

MAXIMUM RATING (Ta=25)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 μs)	P _{PK}	825	W
Peak Pulse Current (tp=8/20 μs)	I _{PP}	25	A
Junction Temperature	T _J	150	
Storage Temperature	T _{STG}	-55 150	

DEFINITIONS OF ELECTRICAL CHARACTERISTIC SYMBOL

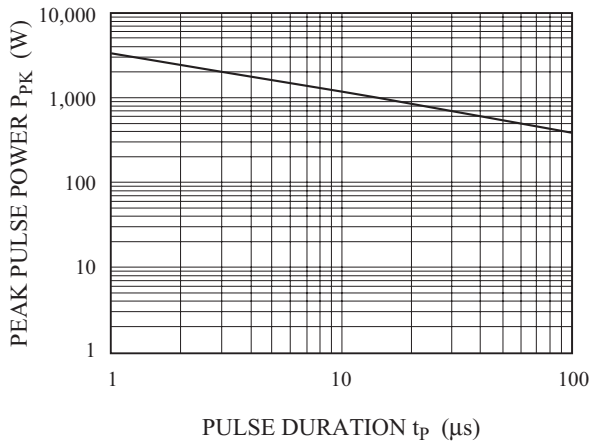


ELECTRICAL CHARACTERISTICS (Ta=25)

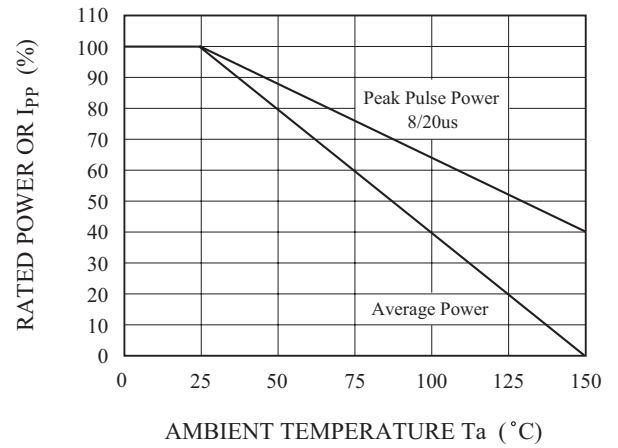
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	18	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	20	22	25	V
Reverse Leakage Current	I _R	V _{RWM} =18V	-	-	100	nA
Clamping Voltage	V _C	I _{PP} =10A, tp=8/20 μs	-	-	28	V
		I _{PP} =25A, tp=8/20 μs	-	-	33	
Dynamic Resistance	R _{DYN}	-	-	100	-	mΩ
Total Capacitance	C _T	V _R =0V, f=1MHz	-	-	250	pF
Electrostatic Discharge	V _{ESD}	IEC61000-4-2	Air	±30	-	kV
			Contact	±30		

PG18HS1610D2

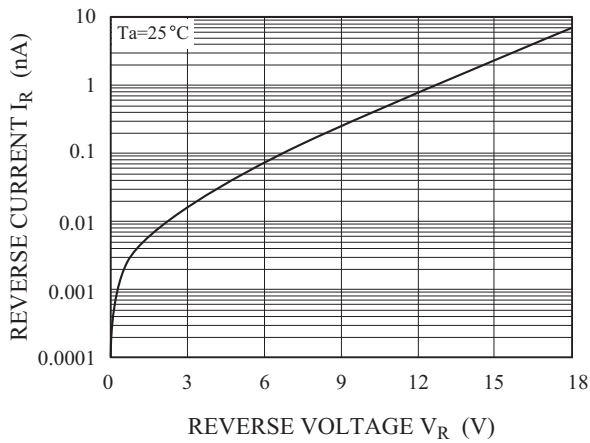
NON-REPETITIVE PEAK PULSE POWER
VS. PULSE TIME



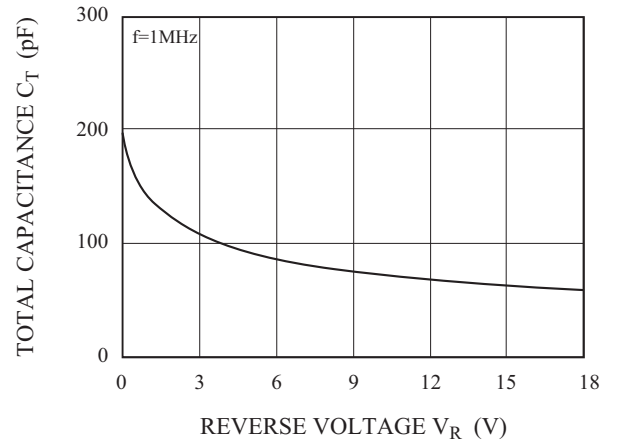
POWER DERATION CURVE



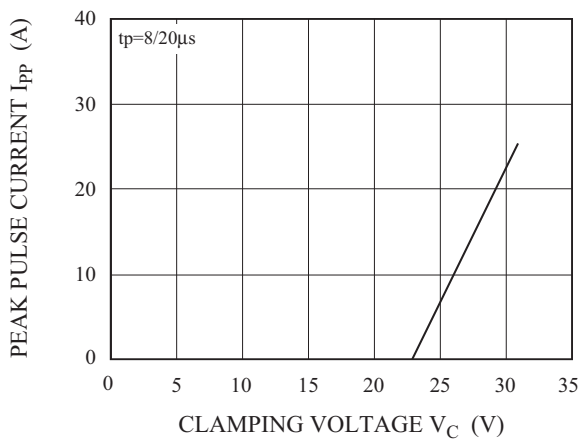
$I_R - V_R$



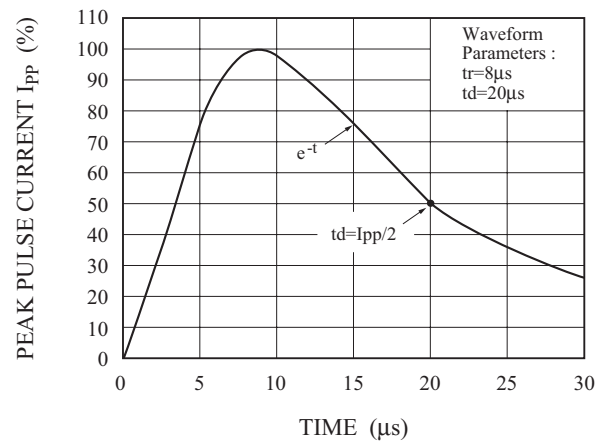
$C_T - V_R$



$I_{pp} - V_C$



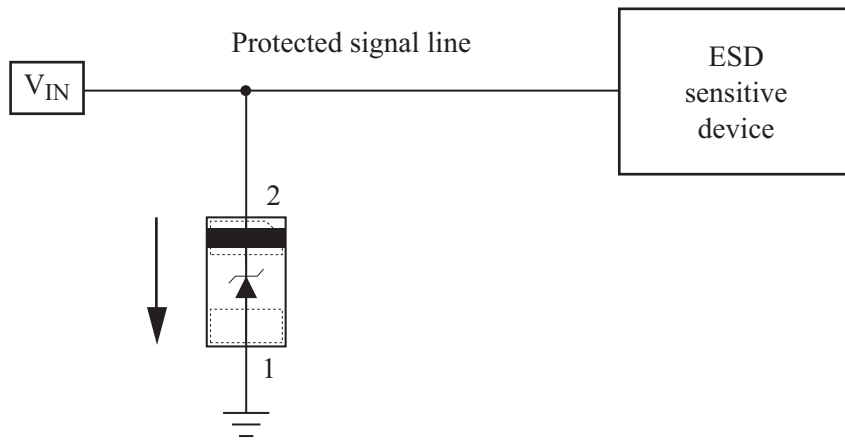
PULSE WAVEFORM



PG18HS1610D2

APPLICATIONS

- Power Supply Protection
- Battery Protection
- Automotive Applications
- Cellular Handsets
- Portable Electronics
- Computers and Peripheral



Recommended pad dimension & Marking Information

Recommended pad dimension	Marking Code
