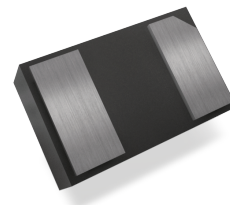


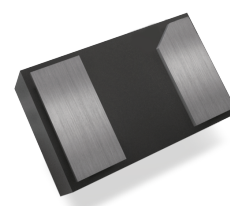
Protection in Portable Electronics Applications.

FEATURES

- Transient protection for Power lines to
 - IEC61000-4-2(ESD) : Air mode $\pm 30\text{kV}$ / Contact mode $\pm 30\text{kV}$
 - IEC61000-4-5(Surge) : $80\text{A}(t_p=8/20\mu\text{s})$
- Total capacitance $C_T = 800\text{pF}(\text{Max})$
- Uni-directional, working voltage up to : $V_{\text{RWM}} = 7.6\text{V}$
- Small Size $1.6 \times 1.0 \times 0.55\text{mm}$
- Low reverse current : $<100\text{nA Max} (@V_{\text{RWM}} = 7.6\text{V})$
- Suffix U : Qualified to AEC-Q101.
ex) PG08JS1610D2-RTL/HU



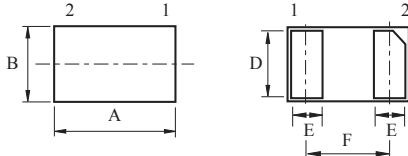
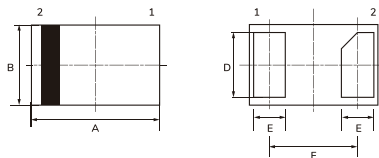
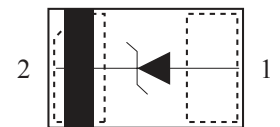
DFN1610-2L (Leadless-Type)



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><thead><tr><th rowspan="2">DIM</th><th colspan="3">MILLIMETERS</th></tr><tr><th>MIN</th><th>NOM</th><th>MAX</th></tr></thead><tbody><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></tbody></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><thead><tr><th rowspan="2">DIM</th><th colspan="3">MILLIMETERS</th></tr><tr><th>MIN</th><th>NOM</th><th>MAX</th></tr></thead><tbody><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></tbody></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
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ORDERING INFORMATION

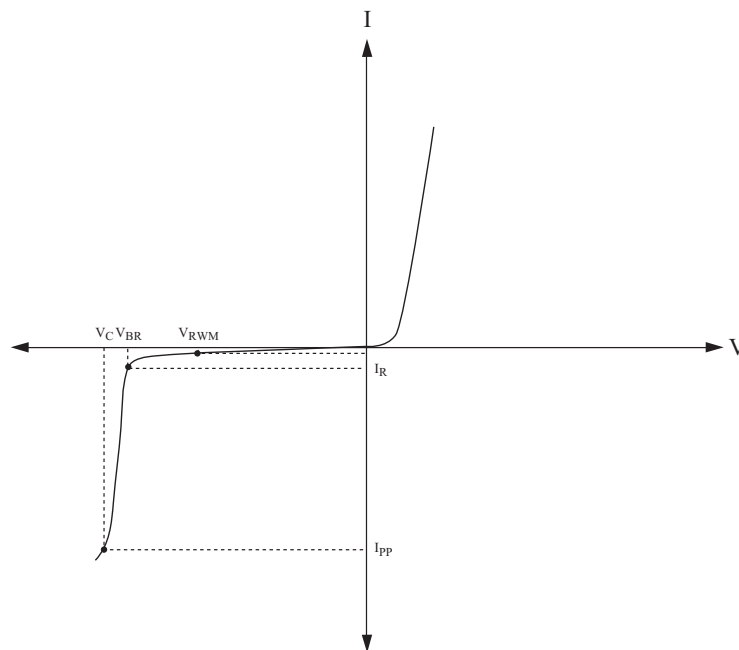
Part Number	Qty per Reel	Reel Size	Marking code
PG08JS1610D2-RTL	8,000	7 inch	KP

PG08JS1610D2

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 μs)	P _{PK}	1480	W
Peak Pulse Current (tp=8/20 μs)	I _{PP}	80	A
Junction Temperature	T _J	150	
Storage Temperature	T _{STG}	-55 ~ 150	

DEFINITIONS OF ELECTRICAL CHARACTERISTIC SYMBOL

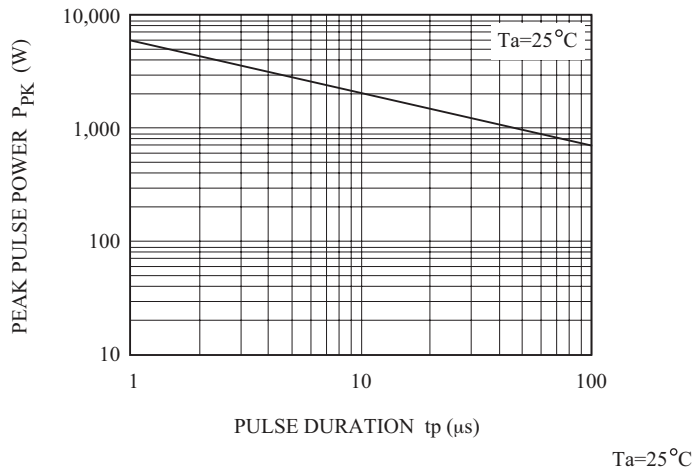


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

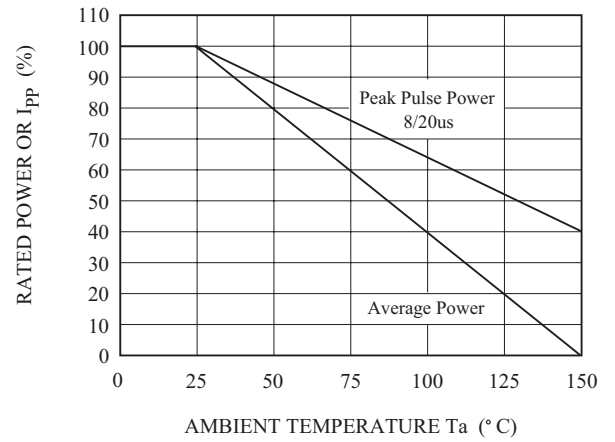
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	7.6	V
Reverse Breakdown Voltage	V _{BR}	I _t =1mA	7.9	-	9.1	V
Reverse Leakage Current	I _R	V _{RWM} =7.6V	-	-	100	nA
Clamping Voltage	V _C	I _{PP} =10A, tp=8/20 μs	-	9.5	10.5	V
		I _{PP} =40A, tp=8/20 μs	-	12.5	13.5	V
		I _{PP} =80A, tp=8/20 μs	-	17.5	18.5	V
		I _{TLP} =4A, tp=100ns	-	8.4	-	V
		I _{TLP} =16A, tp=100ns	-	9.0	-	V
Dynamic Resistance	R _{DYN}	Δ V _C /Δ I _{TLP}	-	50	-	mΩ
Total Capacitance	C _T	V _R =0V, f=1MHz	-	-	800	pF
Electrostatic Discharge	V _{ESD}	IEC61000-4-2	Air	±30	-	kV
			Contact	±30		

PG08JS1610D2

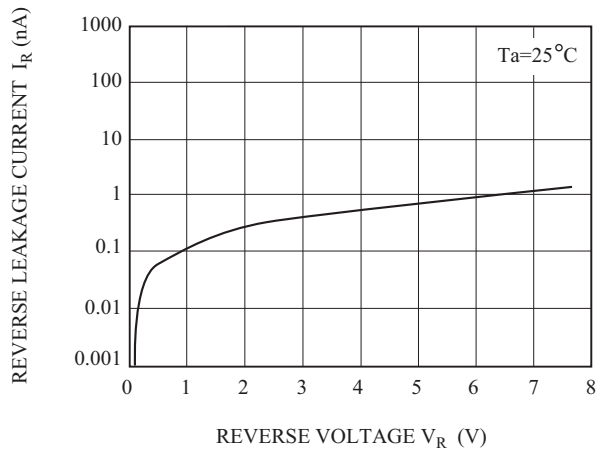
NON-REPETITIVE PEAK PULSE
POWER VS. PULSE TIME



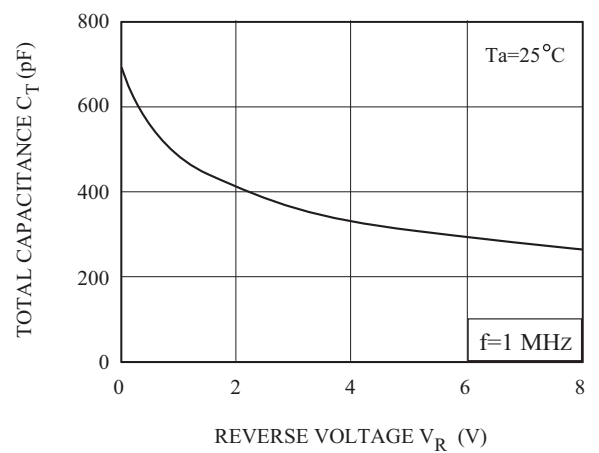
POWER DERATION CURVE



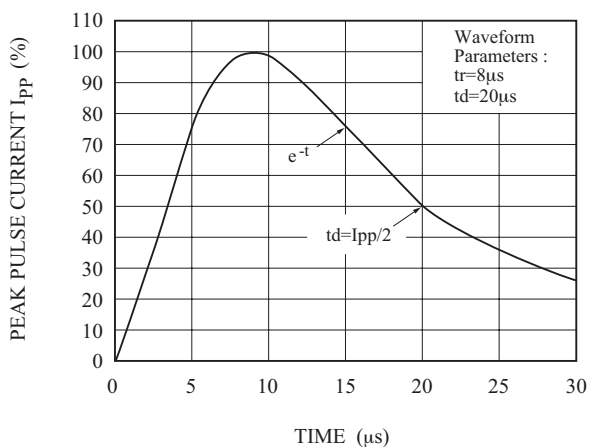
$I_R - V_R$



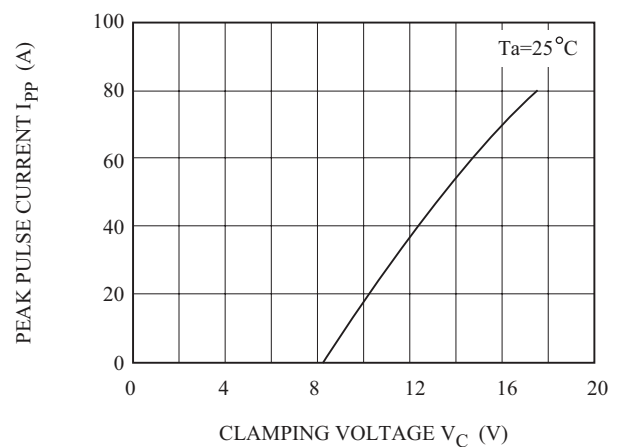
$C_T - V_R$

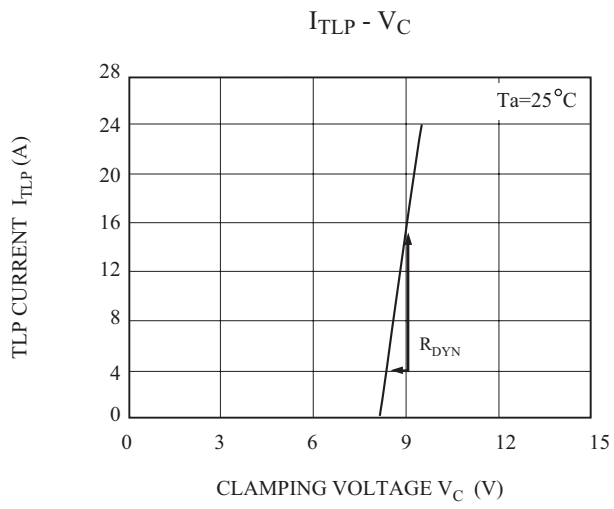


PULSE WAVEFORM



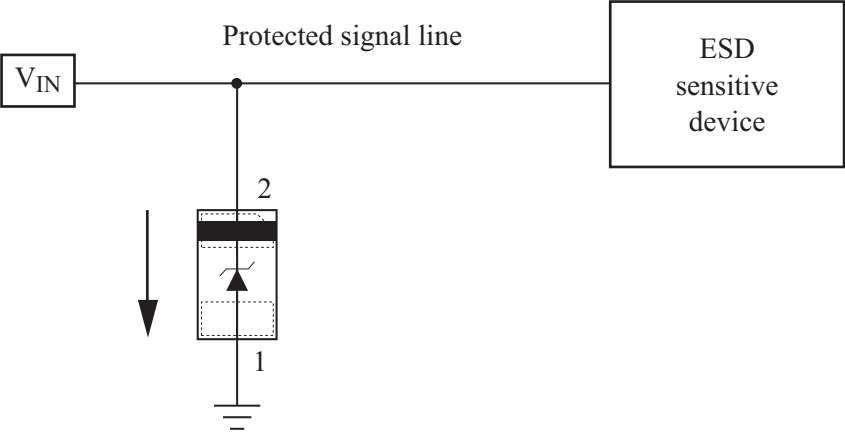
$V_C - I_{pp}$





APPLICATIONS

- Power Supply Protection
- USB Block (V_{BUS} Line)



Recommended pad dimension & Marking Information

Recommended pad dimension	Marking Code
Unit : mm	CATHODE MARK KP 2 1