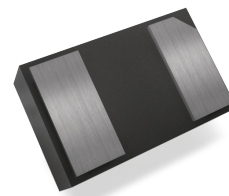


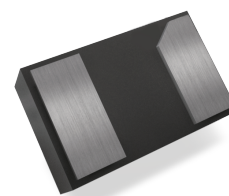
Protection in Portable Electronics Applications.

FEATURES

- Transient protection for data lines to
-IEC61000-4-5(Lightning) : 20A(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) PG24GS1610D2-RTL/HU
- Suffix K : DFN1610-2L(1)
ex) PG24GS1610D2-RTL/HUK



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
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ORDERING INFORMATION

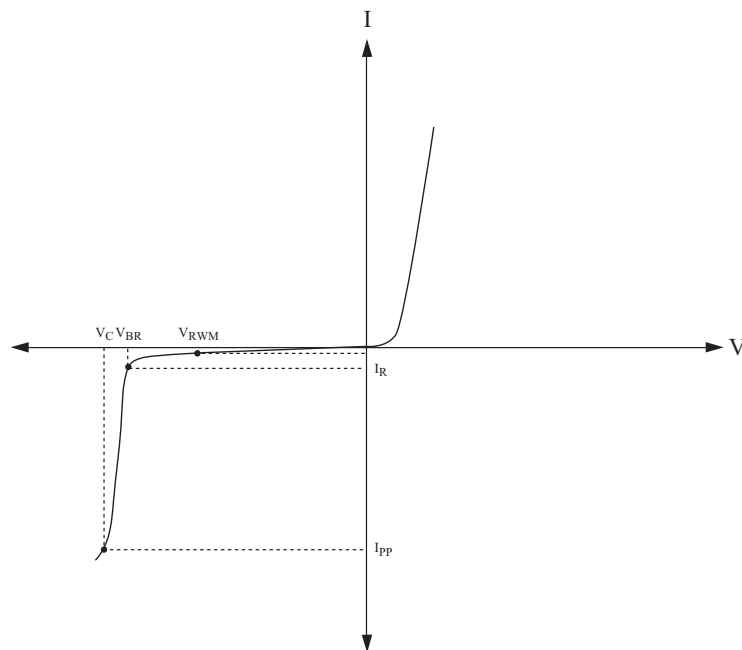
Part Number	Qty per Reel	Reel Size	Marking code
PG24GS1610D2-RTL	8,000	7 inch	KK

PG24GS1610D2

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 μs)	P _{PK}	900	W
Peak Pulse Current (tp=8/20 μs)	I _{PP}	20	A
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 150	°C

DEFINITIONS OF ELECTRICAL CHARACTERISTIC SYMBOL

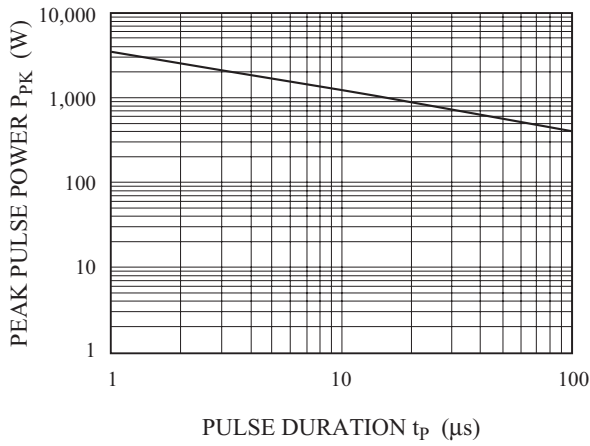


ELECTRICAL CHARACTERISTICS (Ta=25°C)

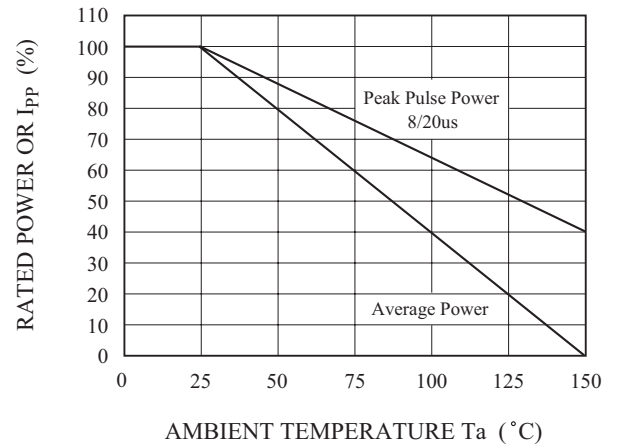
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	28	31	34	V
Reverse Leakage Current	I _R	V _{RWM} =24V	-	-	100	nA
Clamping Voltage	V _C	I _{PP} =10A, tp=8/20 μs	-	-	40	V
		I _{PP} =20A, tp=8/20 μs	-	-	45	
Dynamic Resistance	R _{DYN}	-	-	150	-	mΩ
Total Capacitance	C _T	V _R =0V, f=1MHz	-	-	200	pF
Electrostatic Discharge	V _{ESD}	IEC61000-4-2	Air	±30	-	kV
			Contact	±30		

PG24GS1610D2

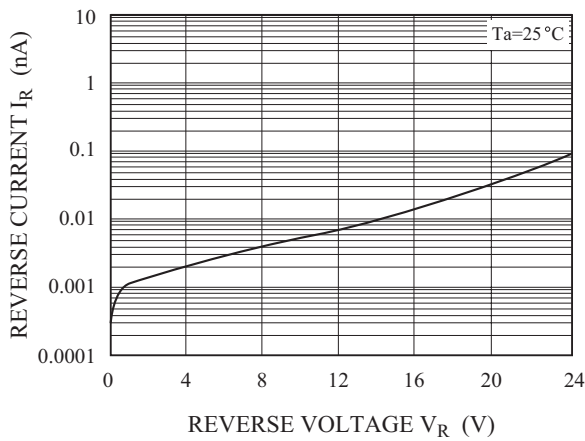
NON-REPETITIVE PEAK PULSE POWER
VS. PULSE TIME



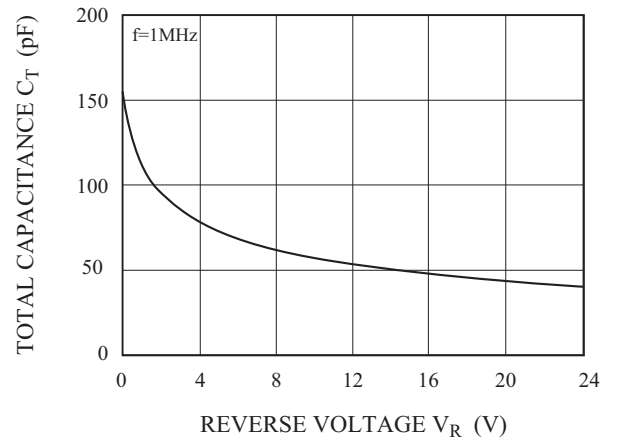
POWER DERATION CURVE



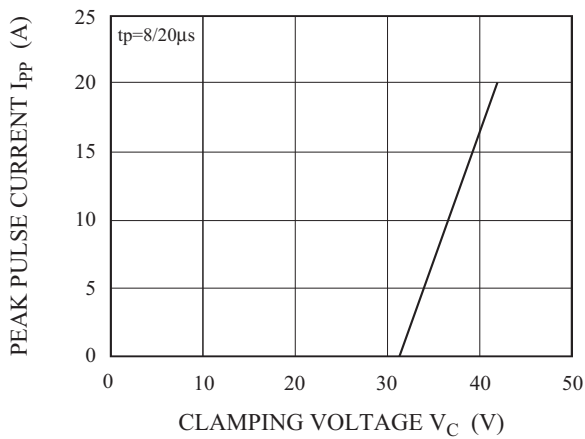
$I_R - V_R$



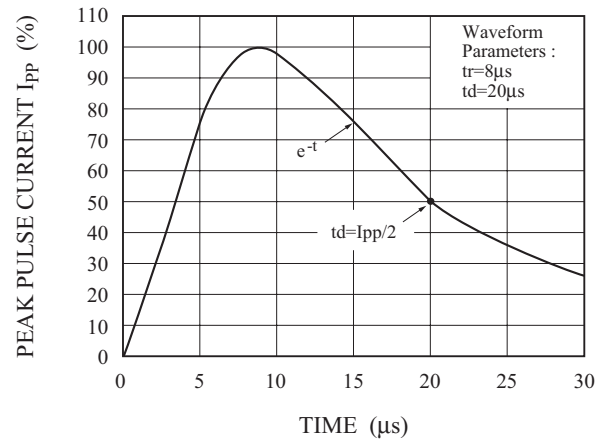
$C_T - V_R$



$I_{pp} - V_C$



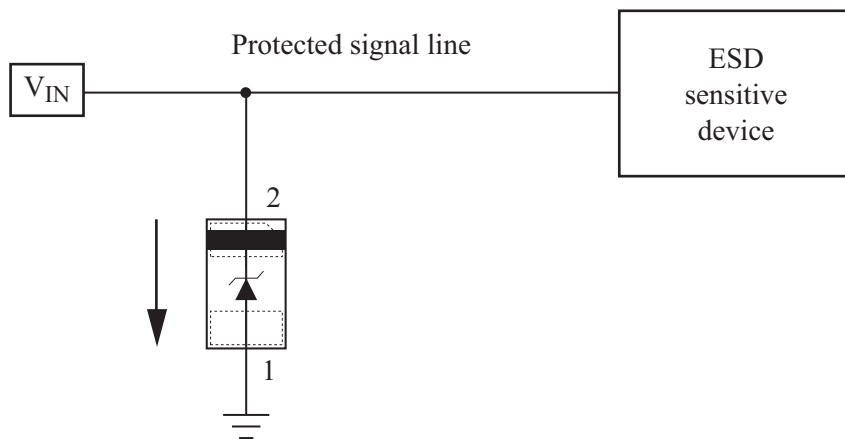
PULSE WAVEFORM



PG24GS1610D2

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
Diagram illustrating the recommended pad dimensions for the diode. The dimensions shown are 0.625 (width of the right pad), 1.00 (height of the right pad), and 1.225 (distance between the centers of the two pads).	Diagram illustrating the marking code 'KK' on the diode pad.