

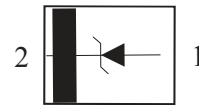
Protection in Portable Electronics Applications.

FEATURES

- 100 Watts peak pulse power ($t_p=8/20 \mu s$)
- Transient protection for data lines to IEC61000-4-2(ESD) 20kV(Air), 15kV(Contact) IEC61000-4-4(EFT) 40A($t_p=5/50ns$) IEC61000-4-5(Lightning) 10A($t_p=8/20 \mu s$)
- Small package for use in portable electronics.
- Suitable replacement for Multi-Layer Varistors in ESD protection applications. (* Multi-Layer Varistors [0402 Size])
- Protects on I/O or power line.
- Low clamping voltage.
- Low leakage current.
- Non Suffix : ULP-2 Package ex) PG05FSUL2-RTL/H
- Suffix U : ULP-2 Package& Qualified to AEC-Q101 ex) PG05FSUL2-RTL/HU
- Suffix R : ULP-2(4) Package ex) PG05FSUL2-RTL/HR
- Suffix UR : ULP-2(4) Package& Qualified to AEC-Q101 ex) PG05FSUL2-RTL/HUR
- Suffix P : ULP-2(5) Package ex) PG05FSUL2-RTL/HP
- Suffix UP : ULP-2(5) Package& Qualified to AEC-Q101 ex) PG05FSUL2-RTL/HUP



ULP-2 (leadless-type)



1. CATHODE 2. ANODE

Pin configurations (Uni-directional)

APPLICATIONS

- Cell phone handsets and accessories.
- Notebooks, desktops, & servers.
- Microprocessor based equipment.
- Portable instrumentation.
- Personal digital assistants (PDA's)
- Pagers peripherals.

PRODUCT DESCRIPTION

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

Package dimensions (ULP-2)	Package dimensions (ULP-2(4))	Package dimensions (ULP-2(5))																																																				
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ORDERING INFORMATION

Part Number	Qty per Reel	Reel Size	Marking code
PG05FSUL2-RTL	10,000	7 inch	5P

PG05FSUL2

MAXIMUM RATING (Ta=25°C)

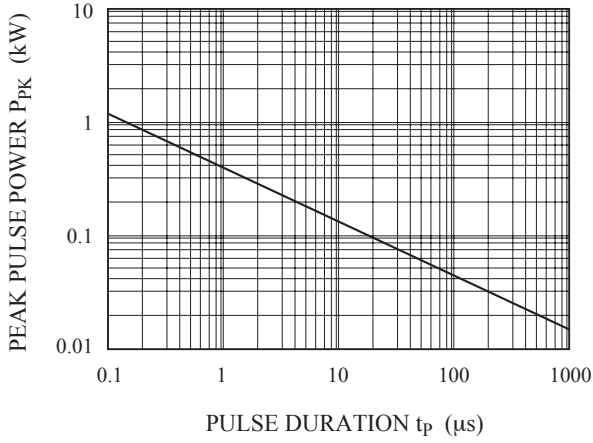
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20μs)	P _{PK}	100	W
ESD per IEC-61000-4-2 (Air)	V _{ESD(Air)}	20	kV
ESD per IEC-61000-4-2 (Contact)	V _{ESD(contact)}	15	kV
Peak Pulse Current (tp=8/20μs)	I _{PP}	10	A
Junction Temperature	T _j	-55~150	°C
Storage Temperature	T _{stg}	-55~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

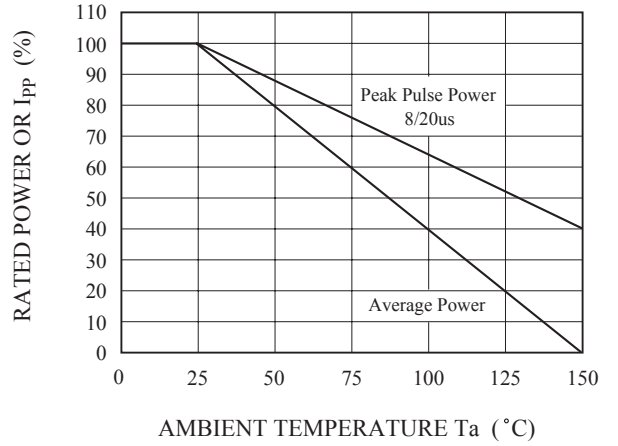
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _t =1mA	6	-	-	V
Reverse Leakage Current	I _R	V _{RWM} =3V	-	-	0.1	uA
		V _{RWM} =5V	-	-	5	
Forward Current	V _F	I _F =10mA	-	0.8	-	V
Clamping Voltage	V _C	I _{PP} =5A, tp=8/20μs	-	-	9.8	V
		I _{PP} =10A, tp=8/20μs	-	-	10.0	
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	-	80	pF

PG05FSUL2

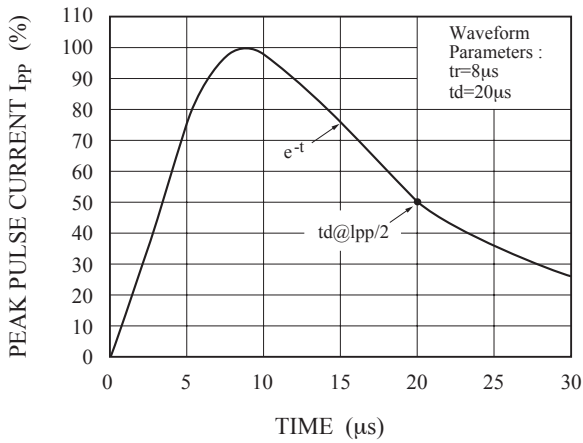
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

