

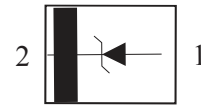
### Protection in Portable Electronics Applications.

#### FEATURES

- 200 Watts peak pulse power (tp=8/20 us)
- Small package for use in portable electronics.
- Protects on I/O or power line.
- Low clamping voltage.
- Low leakage current.
- Non Suffix : ULP-2 Package ex) PG05GSUL2-RTL/H
- Suffix U : ULP-2 Package& Qualified to AEC-Q101 ex) PG05GSUL2-RTL/HU
- Suffix R : ULP-2(4) Package ex) PG05GSUL2-RTL/HR
- Suffix UR : ULP-2(4) Package&Qualified to AEC-Q101 ex) PG05GSUL2-RTL/HUR
- Suffix P : ULP-2(5) Package ex) PG05GSUL2-RTL/HP
- Suffix UP : ULP-2(5) Package&Qualified to AEC-Q101 ex) PG05GSUL2-RTL/HUP



ULP-2 (leadless-type)



#### APPLICATIONS

- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Notebooks, desktops, & servers.

#### 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
PG05GSUL2-RTL	10,000	7 inch	TA

# PG05GSUL2

## MAXIMUM RATING (Ta=25 °C)

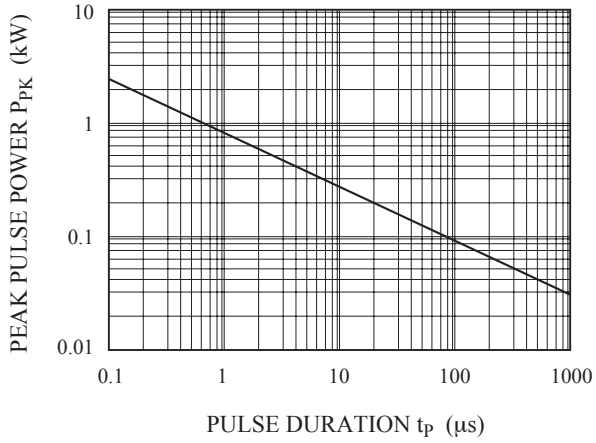
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 us)	P <sub>PK</sub>	200	W
Peak Pulse Current (tp=8/20 us)	I <sub>PP</sub>	16	A
Junction Temperature	T <sub>j</sub>	-55~150	°C
Storage Temperature	T <sub>stg</sub>	-55~150	°C

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

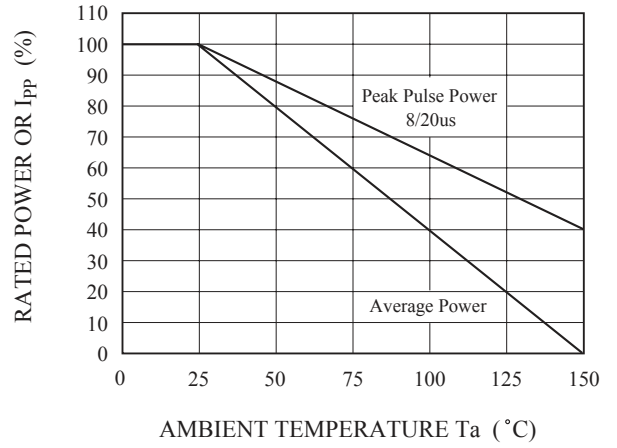
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	5	V	
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>t</sub> =1mA	6	-	-	V	
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =3V	-	-	0.1	uA	
		V <sub>RWM</sub> =5V	-	-	5		
Forward Current	V <sub>F</sub>	I <sub>F</sub> =10mA	-	0.8	-	V	
Clamping Voltage	V <sub>C</sub>	I <sub>pp</sub> =5A, tp=8/20 us	-	-	9.8	V	
		I <sub>pp</sub> =16A, tp=8/20 us	-	-	12.5		
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz	-	-	160	pF	
Electrostatic Discharge	V <sub>ESD</sub>	IEC61000-4-2	Air	±30	-	-	kV
			Contact				

# PG05GSUL2

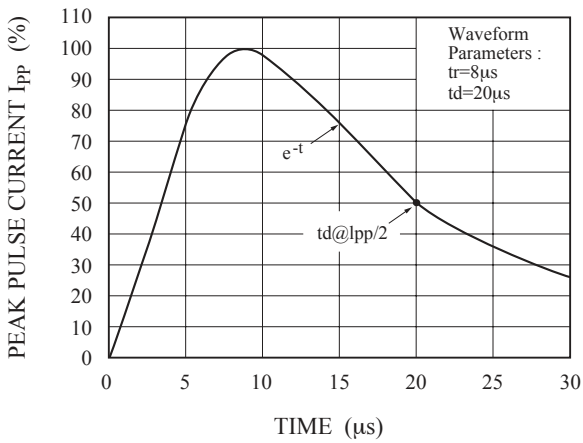
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

