

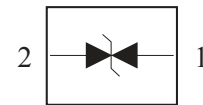
Protection in Portable Electronics Applications.

FEATURES

- Transient protection for data lines to
IEC61000-4-2(ESD) : $\pm 8\text{kV}$ (contact), $\pm 15\text{kV}$ (Air)
IEC61000-4-4(EFT) : $2.5\text{kV}/50\text{A}$
IEC61000-4-5(Surge) 4A ($t_p=8/20\text{us}$)
- 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) PG05TBUL2-RTL/H
- Suffix **U** : ULP-2 Package&Qualified to AEC-Q101 ex) PG05TBUL2-RTL/HU
- Suffix **R** : ULP-2(4) Package ex) PG05TBUL2-RTL/HR
- Suffix **UR** : ULP-2(4) Package&Qualified to AEC-Q101 ex) PG05TBUL2-RTL/HUR
- Suffix **P** : ULP-2(5) Package ex) PG05TBUL2-RTL/HP
- Suffix **UP** : ULP-2(5) Package&Qualified to AEC-Q101 ex) PG05TBUL2-RTL/HUP



ULP-2 (leadless-type)



1. ANODE 2. ANODE

Pin configurations (Bi-directional)

APPLICATIONS

- USB 2.0, 10/100/1000 Ethernet, FireWire, DVI, HDMI, S-ATA
- Mobile Communication
- Consumer Products (STB, MP3, DVD, DSC...)
- LCD-Display, Camera
- Notebooks and desktop computers, 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
PG05TBUL2-RTL	10,000	7 inch	TK

PG05TBUL2

MAXIMUM RATING (Ta=25 °C)

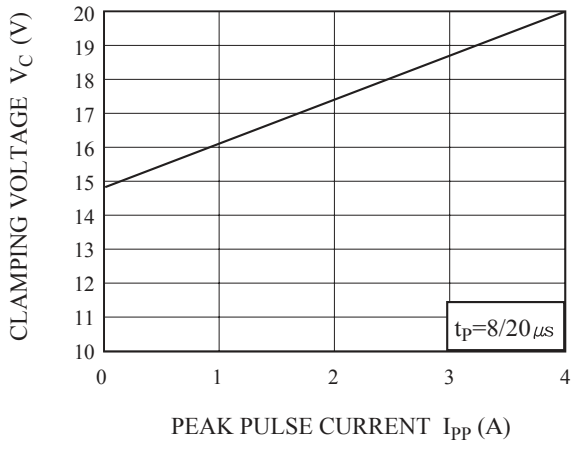
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 us)	P _{PK}	100	W
Peak Pulse Current (tp=8/20 us)	I _{PP}	4	A
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

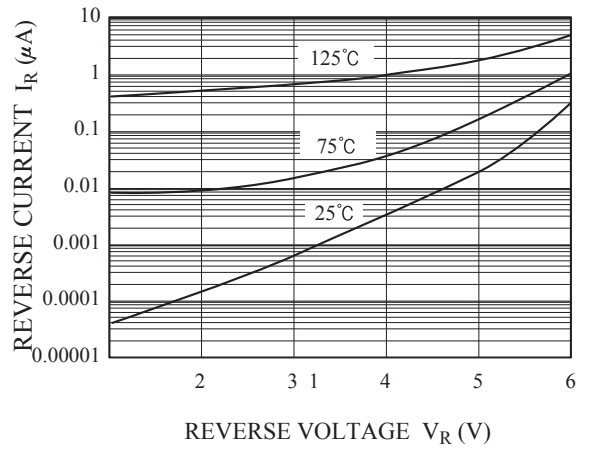
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _t =1mA	7	-	-	V
Reverse Leakage Current	I _R	V _{RWM} =5.3V	-	-	1	uA
Clamping Voltage	V _C	I _{PP} =1A, tp=8/20us	-	13	-	V
		I _{PP} =4A, tp=8/20us	-	20	25	
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	0.3	0.5	pF

PG05TBUL2

CLAMPING VOLTAGE



REVERSE CURRENT



CAPACITANCE

