

**PROTEK –
GBLCxxHP/CHP Series**



Ultra low capacitance TVS Array

PROTEK DEVICES has introduced a series of ultra-low capacitance TVS arrays for circuit protection in smartphones, other handheld wireless systems, USB interfaces and Ethernet 10/100/1000 Base T applications. The new series of TVS arrays consists of four new devices.

The GBLCxxHP/CHP series comprises of two devices, the GBLC03HP and GBLC03CHP, with a rated stand-off voltages of 3.3, and the GBLC05HP and GBLC05CHP with a rated stand-off voltages of 5.0 They are available in both unidirectional and bidirectional configurations and are rated at 750 Watts for an 8/20 microsecond waveshape. The series offers ultra-low capacitance of 3pF (typical) and the also provides low leakage current of less than 0.5 microampere.

Applications:

- Ethernet 10/100/1000 Base T
- SMART Phones
- Handheld - Wireless Systems
- USB Interface

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Please contact us for inquiries, samples or technical requests.

**PROTEK –
PRUSB05UBK**



Ultra low capacitance steering Diode / TVS Array

PROTEK DEVICES has introduced a TVS array capable of guarding against malicious or unsuspecting USB Killer attacks that are proven highly costly to organizations in equipment and data loss. The new component offers circuit protection against positive ESD, fast surge voltage transients, and high negative voltage transients at data lines such as are possible with USB Killer devices.

Applications:

- Gigabit Ethernet
- Portable Electronics
- Video Card Interfaces
- USB 1.0, USB 2.0
- DVI Interfaces

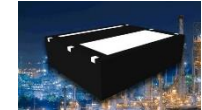
Features:

- Compatible with IEC 61000-4-2 (ESD):
- Air ±15kV, Contact ±8kV
- Compatible with IEC 61000-4-4 (EFT):
- 40A, 5/50ns
- Compatible with IEC 61000-4-5 (Surge): 24A, 8/20µs - Level 2(Line-Gnd) & Level 3(Line-Line)
- 500 Watts Peak Pulse Power per Line(tp = 8/20µs)
- ESD Protection > 25 kilovolts
- Low Clamping Voltage
- Protection for 4 Lines
- Ultra Low Capacitance CJ(SD): 2.5pF Typical

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**PROTEK –
PHYTVSxxxV3 Series**



Hybrid TVS component

PROTEK DEVICES has introduced a new patent-pending series of hybrid semiconductor components for AC power supply circuit protection in consumer and industrial applications like home appliances, industrial equipment automation controls, instrumentation, and SMART meters. The new semiconductor technology is an ideal replacement for surface mount metal oxide varistor (MOV) devices.

Applications:

- Power Adapters
- Home Appliances
- Industrial Equipment - Automation Controls
- Instrumentation
- SMART Meter

Features:

- Compatible with IEC 61000-4-2 (ESD): Level 4 Air ±15kV, Contact ±8kV
- Compatible with IEC 61000-4-4 (EFT): 40A
- Compatible with IEC 61000-4-5 (Surge): L-L Class 2, 250Apk, 8/20µs, 500V with Req = 2 Ohms
- Bidirectional Operation 50/60/400Hz AC Lines
- Very Low Clamping Voltage
- Form Factor Compatible with SMT 3225
- Available for SMT Reflow Soldering
- Low Profile and Space Saving Package
- Operating Temperature -55 to +125°C

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