

PROTEK DEVICES – PBYG10Y



Diode for Power Supply Rectification

The PBYG10Y can also serve as a flyback diode in various electronics subsystems.

PROTEK DEVICES PBYG10Y rectifier diode offers low power loss and a low forward voltage drop. It is RoHS and REACH compliant. Operating and storage temperature are rated at -55 to 150 degrees celsius. Peak forward surge current, at 8.3ms single half-sine wave superimposed on rated load, is 50 amps. The typical thermal resistance - lead - for the PBYG10Y is 40 degrees celsius while the typical thermal resistance - ambient - is 80 degrees Celsius.

Applications:

- Rectification in Power Supplies
- Freewheeling Diode For Consumer Electronics, Automotive & Telecom

Features:

- Glass Passivated Chip
- Low Power Loss
- Low Forward Voltage Drop
- Low Reverse Current
- Low Forward Voltage Drop
- RoHS Compliant
- REACH Compliant

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Please contact us for inquiries, samples or technical requests.

GOLLEDGE – SCOCXO



12V CMOS Output Tight Stability OCXO

- Ultra high stability options
- Compact 14-pin DIL package (SMD optional)
- 12.0V supply voltage
- CMOS output
- Very fast warmup

Features:

- Frequency range 10.0kHz ~ 54.0MHz
- Dimensions 20.1 x 12.5 x 8.0mm
- Frequency stability ± 0.3 ppm max first year ± 2.5 ppm max in 10 years / ± 0.1 ppm over V_{DD} $\pm 0.5V$ / ± 0.01 ppm over 10% change in load
- Short term stability 1×10^{-10} , τ 0.1 to 30s 5×10^{-11} typ at 1s
- Storage temperature range -55 to +125°C
- Output waveform CMOS compatible
'0' = +0.4V max, '1' = 4.5V min
40:60 max, Rise / fall times 7ns max (no load)
- Load 3pF min, 47pF max
- Start up time 5ms max
- +12.0V ($\pm 0.5V$)
- 250mA max for up to 10s @ 25°C during start up / 50mA max @ +25°C / 80mA max @ -20°C
- Warm up time 30s to within ± 0.1 ppm @ 25°C
- Phase noise (typ @ 10MHz) -90dBc/Hz @ 10Hz -120dBc/Hz @ 100Hz / -130dBc/Hz @ 1kHz / -135dBc/Hz @ 10kHz
- Shock & vibration 5,000g, 0.3ms ½-sine 10.0 ~ 2,000Hz, 20g

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PROTEK DEVICES – PUSB403



ULTRA LOW CAPACITANCE STEERING DIODE/TVS ARRAY

PROTEK DEVICES has introduced a new steering diode transient voltage suppressor array for circuit protection across popular consumer electronic display interfaces. The new PUSB403 device is ideal for USB 1.0, 2.0, 3.0 and 3.1 and for HDMI 1.4 and 2.0 on UHD and 4K displays.

Applications:

- USB 1.0, USB 2.0, USB 3.0 & USB 3.1
- HDMI 1.4 & 2.0 / UHD / 4K Interfaces

Features:

- Compatible with IEC 61000-4-2 (ESD): Air ± 16 kV, Contact ± 16 kV
- Compatible with IEC 61000-4-4 (EFT)
- Compatible with IEC 61000-4-5 (Lightning): 6A - 8/20 μ s
- Low Leakage Current < 100nA
- Protects 4 Lines
- Ultra Low Capacitance: 0.15pF Typ(I/O-I/O) & 0.45pF Typ(I/O-GND)
- RoHS Compliant
- REACH Compliant

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