

15KP SERIES

All Silicon UNIDIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR



FEATURES:

- ▶ All Silicon design provides the fastest transient response available, less than one nanosecond.
- ▶ Rugged epoxy molded case with printed circuit board mount solder pins.
- ▶ Effective low clamping voltages.
- ▶ Powerful, high speed transient energy absorption of 15 kW peak pulse power.
- ▶ Available in voltage ranges from 17 to 280 VDC.
- ▶ Hermetically sealed package for the most severe environments.
- ▶ Automatically resets after each transient. No maintenance is required.
- ▶ Low profile package and lead length allow for printed circuit mounting or hard wiring to solder terminals, allowing simple integration into new and existing designs.
- ▶ Clear, legible polarity and part markings.

Applications:

The 15KP Series is designed for “across the line” applications from 17 to 280 VDC. Typical applications include power supplies, DC buss distribution, communication equipment, precision industrial electronic equipment, telecom equipment, computer systems, etc.

Consult factory for other special operating voltages.

Select the PIP Series for AC applications.

Typical Installation:

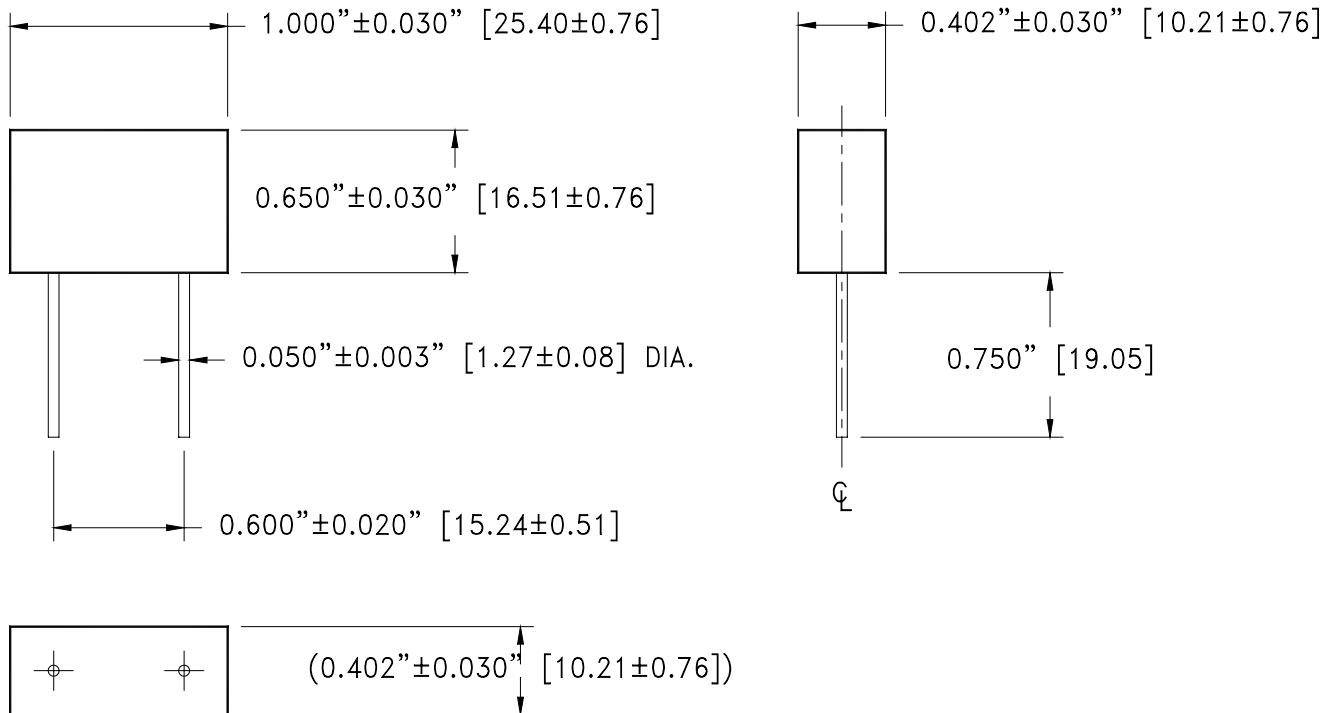
Observe normal care relative to solid state components in soldering the 15KP Series into a PCB. The terminal marked [+] should be installed to the plus side of the DC supply. This is the reverse bias (avalanche mode) polarity. For long duration transients, large PCB land surface should be provided to remove heat via the device leads.

15KP SERIES OPERATING SPECIFICATIONS:

SPECIFICATIONS	15KP17A	15KP24A	15KP36A	15KP48A	15KP78A	15KP130A	15KP150A	15KP180A	15KP200A	15KP220A	15KP240A	15KP280A
DC Operating Voltage	17 Volts	24 Volts	36 Volts	48 Volts	78 Volts	130 Volts	150 Volts	180 Volts	200 Volts	220 Volts	240 Volts	280 Volts
Minimum Breakdown Voltage	18.9 Volts	26.7 Volts	40.0 Volts	53.3 Volts	86.7 Volts	144 Volts	167 Volts	200 Volts	222 Volts	245 Volts	267 Volts	311 Volts
Maximum Reverse Leakage I _r in micro-Amps	5000	150	10	10	10	10	10	10	10	10	10	10
Maximum Clamping Voltage V _{pp}	29.3 Volts	40.7 Volts	59.7 Volts	77.7 Volts	126 Volts	209 Volts	243 Volts	291 Volts	322 Volts	356 Volts	388 Volts	452 Volts
Maximum Peak Pulse Current I _{pp} (10x1000 microseconds)	512 Amps	369 Amps	251 Amps	193 Amps	119 Amps	72 Amps	62 Amps	52 Amps	47 Amps	42 Amps	39 Amps	33 Amps
Response Time	Less than 1 nanosecond											

Operating/storage temperature -55° to +150°C. Steady state power dissipation 7.0 watts @ 25°C. Consult the factory for other applications and operating conditions and specifications. All specifications at 25 degrees Celsius.

OUTLINE DIMENSIONS:



DIMENSIONS ARE IN INCHES.

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