

## 28V DC Bus Protection Using the PAL704-P15K36/T



### OBJECTIVE

The PAL704-P15K36 and PAL704-P15K36T 15 kilowatt silicon transient voltage suppressors (TVS) designed for use primarily in 28 Volt aircraft applications in accordance with MIL-STD-704, MIL-STD-19500 and RCTA DO-160G. These assemblies typically operate with a minimum source impedance of 0.25 Ohms.

These devices have a peak pulse power rating of 15,000 Watts for a 1 ms waveshape and therefore can be used in applications where induced lightning on rural or remote transmission lines present a hazard to electronic circuitry. The PAL704-P15K36 is designed for high current short peak pulse transient applications, whereas the PAL704-P15K36T is designed for extended peak pulse transients greater than 1 millisecond. In military and aerospace markets, protecting costly equipment – from vehicles to aircraft and beyond – from electrical events is a requirement.

### BENEFIT

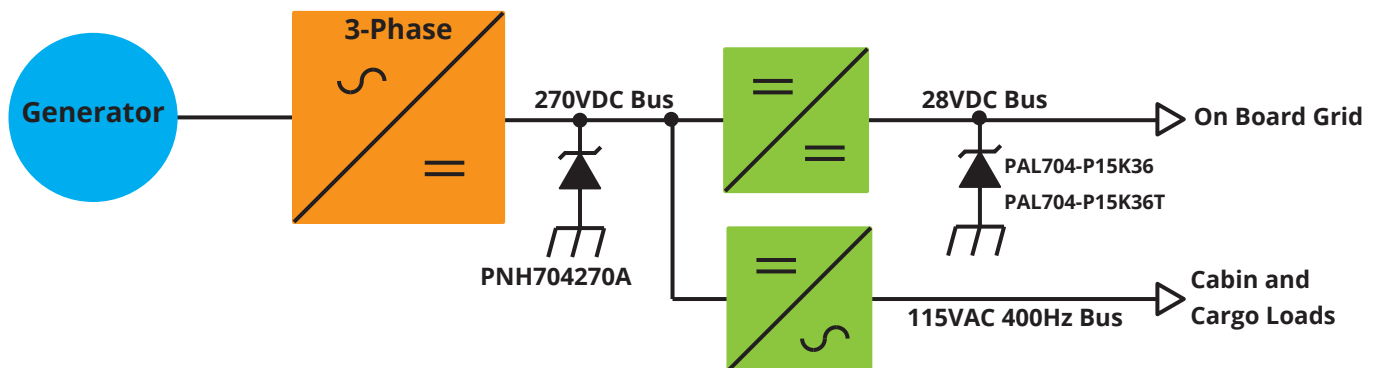
The PAL704-P15K36 and PAL704-P15K36T 15 kilowatt silicon transient voltage suppressors (TVS) designed for use primarily in 28 Volt aircraft applications in accordance with MIL-STD-704, MIL-STD-19500 and RTCA DO-160G standards. Module can be mounted on PCB or in a system cabinet.

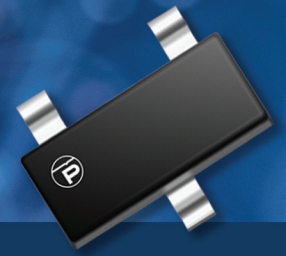
### COMPLIANCE

- MIL-STD-704 and MIL-STD-19500
- RTCA DO-160G

### SOLUTION

- 1 x PAL704-P15K36
- Peak Pulse Power (10/1000 $\mu$ s): 15kW
- Stand-Off Voltage  $V_{WM}$ : 31.5V
- Max Peak Pulse Current  $I_{PPM}$ : 300A
- Max Forward Voltage  $V_F$ : 3.0V<sub>DC</sub>
- Alternative 1 x PAL704-P15K36T





## 28V DC Bus Protection Using the PAL704-P15K36/T

### COMPANY PROFILE

In business more than 30 years, ProTek Devices™ is a privately held semiconductor company. The company offers a product line of over-voltage protection that include Transient Voltage Suppressor (TVS) Arrays, Steering Diode Array Hybrids, High-power Components and Modules, as well as Steering Diodes, EMI Filter/TVS Arrays and Thyristor Surge Suppressors. These components deliver circuit protection in electronic systems from numerous overvoltage events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices is an ISO 9001 certified company.



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