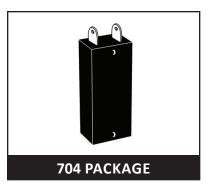


HIGH POWER AIRCRAFT/ VEHCILE DC BUS VOLTAGE SUPPRESSOR

RTCA DO-160G COMPLIANT PRODUCT



DESCRIPTION

The 704-15K36P is a 15 kilowatt silicon transient voltage suppressors (TVS) designed for use primarily in 28 Volt aircraft applications in accordance with MIL-STD-704. This device typically operates with a minimum source impedance of 0.25 Ohms.

This device has 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 704-15K36P is designed for high current short peak pulse transient applications.

FEATURES

- RTCA DO-160G COMPLIANT PRODUCT
- Meets MIL-STD-704
- 15 kilowatts Peak Pulse Power per Line (tp = 10/1000μs)
- Each Device 100% Tested
- 28 Volt Power Supply Protection

MECHANICAL CHARACTERISTICS

- Molded Plastic Case
- Approximate Weight: 38 grams
- Flammability Rating UL 94V-0
- Military Screening Available Upon Request for IAW MIL-PRF-19500

APPLICATIONS

- DC Power Supply Protection
- MIL-STD-704 Power Bus Protection

TYPICAL DEVICE CHARACTERISTICS

RTCA DO-160G COMPLIANT PRODUCT

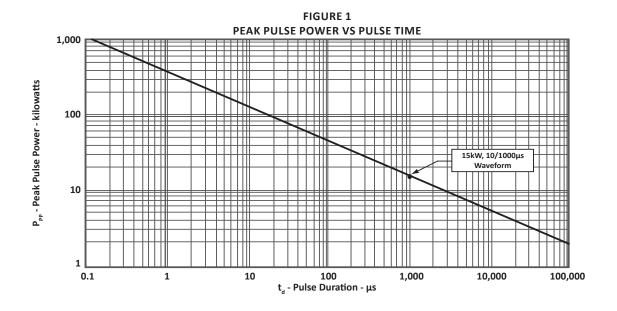
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified						
PARAMETER	SYMBOL	VALUE	UNITS			
Peak Pulse Power (tp = 10/1000) - See Figure 1	P _{pp}	15	kilowatts			
Operating Temperature	T _L	-55 to 150	°C			
Storage Temperature	T _{stg}	-55 to 150	°C			
Steady State Power Dissipation @ 50°C	T _A	10.0	Watts			
Forward Surge Rating @ 25°C 1/120 seconds	FI	300	Amps			

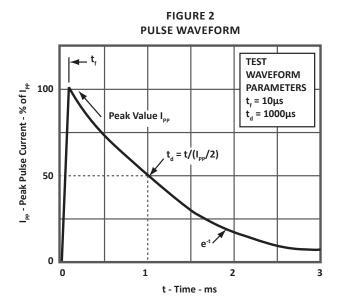
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified								
PART NUMBER	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM PEAK PULSE CURRENT (Fig. 2)	MAXIMUM FORWARD VOLTAGE		
	V _{wm} VOLTS	@10mA V _(BR) VOLTS	@ I _{PPM} V _C VOLTS	@V _{wм} Ι _D μΑ	I _{PPM} AMPS	@100A, 8.3ms V _F VOLTS DC		
704-15K36P	31.5	36	53	100	300	3.0		

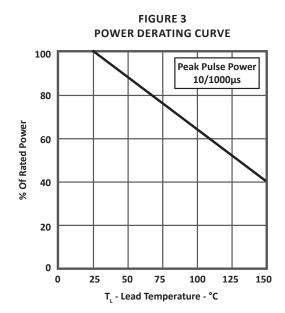
05488.R0 1/16 Page 2 <u>www.protekdevices.com</u>

TYPICAL DEVICE CHARACTERISTICS

RTCA DO-160G COMPLIANT PRODUCT







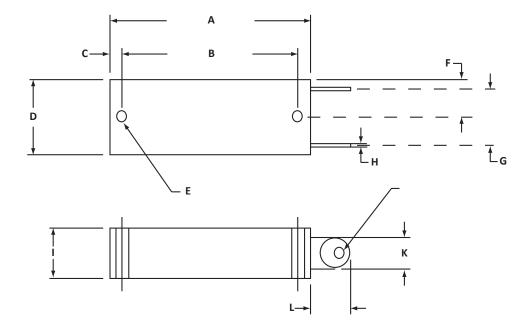


PACKAGE INFORMATION

704 OUTLINE DIMENSIONS							
DIM	MILLIN	1ETERS	INCHES				
	MIN	MAX	MIN	MAX			
А	49.28	51.56	1.97	2.03			
В	43.92	44.96	1.73	1.77			
С	2.79	3.56	0.11	0.14			
D	18.29	19.81	0.72	0.78			
Е	3.18 DIA		0.125 DIA				
F	8.76	10.29	0.345	0.405			
G	13.51	15.04	0.532	0.592			
Н	0.66	0.71	0.026	0.028			
I	11.94	13.46	0.47	0.53			
J	2.41	2.92	0.095	0.115			
К	7.70	8.20	0.303	0.323			
L	9.40	10.92	0.37	0.43			
NOTES							

NOTES

^{1.} Dimension "E" is nominal.



ORDERING INFORMATION

BASE PART NUMBER

704-15K36P

NOTES

1. Marking on Part - logo, date code, polarity dot (for positive terminal) and part number.

COMPANY INFORMATION

RTCA DO-160G COMPLIANT PRODUCT

COMPANY PROFILE

In business more than 20 years, ProTek Devices™ is a privately held semiconductor company. The company offers a product line of overvoltage protection and overcurrent protection components. These include transient voltage suppressor array (TVS arrays) avalanche breakdown diode, steering diode TVS array and electronics SMD chip fuses. These components deliver circuit protection in electronic systems from numerous overvoltage and overcurrent events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices also offers high performance interface and linear products. They include analog switches; multiplexers; LED drivers; LED wafer die for ESD protection; audio control ICs; RF and related high frequency products.

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