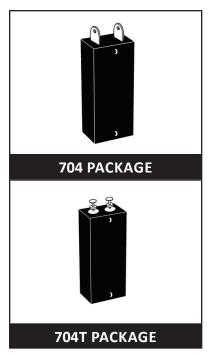


HIGH POWER AIRCRAFT/ VEHCILE DC BUS VOLTAGE SUPPRESSOR



DESCRIPTION

The 704-15K36 and 704-15K36T are 15 kilowatt silicon transient voltage suppressors (TVS) designed for use primarily in 28 Volt aircraft applications in accordance with MIL-STD-704 and MIL-STD-19500. 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 704-15K36 is designed for high current short peak pulse transient applications, where as the 704-15K36T is designed for extended peak pulse transients greater than 1 millisecond.

This series can be screened upon request for military requirements in accordance with MIL-PRF-19500 (applicable tests)

FEATURES

- 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
- 704-15K36 Approximate Weight: 38 grams
- 704-15K36T Approximate Weight: 65 grams
- Flammability Rating UL 94V-0
- Military Screening Available Upon Request for IAW MIL-PRF-19500
- Standard Screening Available Upon Request:
 - H1 Submodule Screening (Test Plans 05231 & 05232)
 - H2 Submodule & Module Screening (Test Plan 05233)
 - H3 Submodule & Module Screening with Group B & C Lot Testing (Test Plans 05234 & 05235)

APPLICATIONS

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

A Warranty Disclaimer is required for the purchase of this part. Contact Customer Service for more information.

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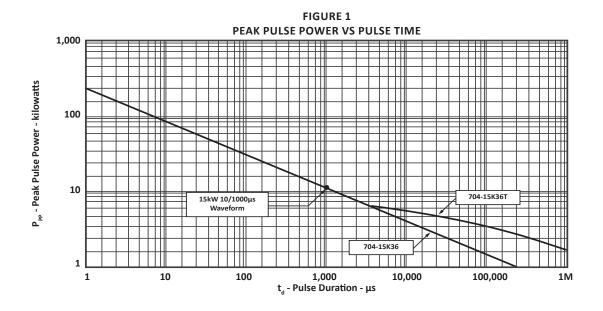
TYPICAL DEVICE CHARACTERISTICS

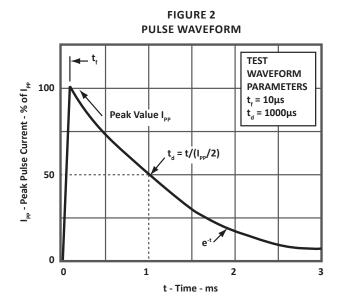
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified				
PARAMETER	SYMBOL	VALUE	UNITS	
Peak Pulse Power (tp = 10/1000) - See Figure 1	P _{pp}	15	kilowatts	
Operating Temperature	T _L	-55 to 150	°C	
Storage Temperature	T _{stg}	-55 to 150	°C	
Steady State Power Dissipation @ 50°C	T _A	10.0	Watts	
Forward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

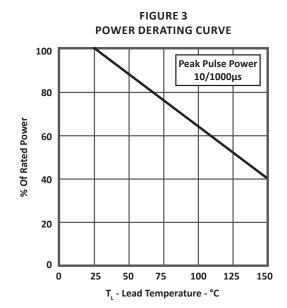
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified						
PART NUMBER	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM PEAK PULSE CURRENT (Fig. 2)	MAXIMUM FORWARD VOLTAGE
	V _{wm} VOLTS	@10mA V _(BR) VOLTS	@ I _{PPM} V _C VOLTS	@ν _{wм} Ι _D μΑ	I _{PPM} AMPS	@100A, 8.3ms V _F VOLTS DC
704-15K36	31.5	36	53	100	300	3.0
704-15K36T	31.5	36	53	500	300	15.0

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TYPICAL DEVICE CHARACTERISTICS





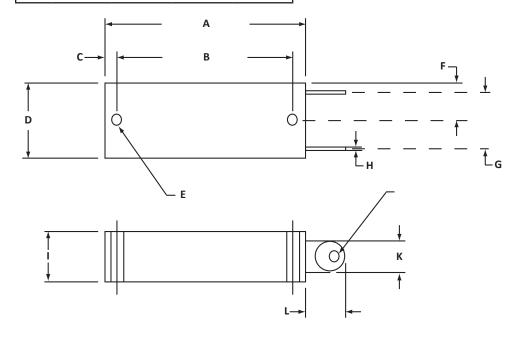


PACKAGE INFORMATION

704 OUTLINE DIMENSIONS					
DIM	MILLIMETERS		INCHES		
ווועו	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	
ı	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

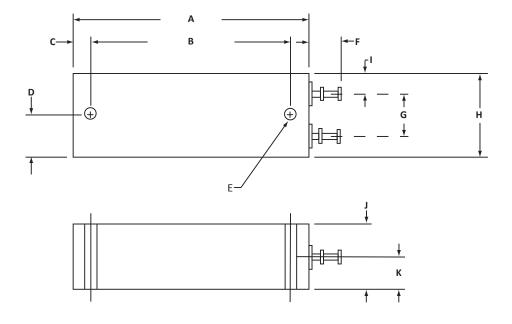
^{1.} Dimension "E" is nominal.



PACKAGE INFORMATION

704T OUTLINE DIMENSIONS					
DIM	MILLIMETERS		INCHES		
ואווט	MIN	MAX	MIN	MAX	
А	62.74	64.26	2.47	2.53	
В	53.34	54.48	2.10	2.145	
С	4.32	5.33	0.17	0.21	
D	10.54	12.07	0.415	0.475	
E	3.18 DIA		0.125 DIA		
F	8.26	9.27	0.325 0.365		
G	11.43		0.45		
Н	21.84	23.37	0.86	0.92	
ı	5.59		0.22		
J	16.51	17.53	0.65	0.69	
К	8.51		0.335		
NOTES					

1. Dimensions "E", "G", "I" and "K" are nominal.



ORDERING INFORMATION				
BASE PART NUMBER	SUBMODULE SCREENING	SUBMODULE & MODULE SCREENING	SUBMODULE, MODULE, GROUP B & C LOT TESTING	
704-15K36	H1	H2	Н3	
704-15K36T	H1	H2	H2	

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

Package outline per document number 06035.R2 9/09



COMPANY INFORMATION

COMPANY PROFILE

In business more than 20 years, ProTek Devices™ is a privately-held company located in Tempe, Arizona, that offers a product line of transient voltage suppressors (TVS); avalanche breakdown diodes; steering diode TVS arrays and other surge suppressor component products. These TVS devices protect electronic systems from the effects of lightning, electrostatic discharge (ESD), nuclear electromagnetic pulses (NEMP), inductive switching and EMI / RFI. ProTek Devices also offers high performance interface and linear products that include analog switches; multiplexers; LED drivers; audio control ICs; RF and related high frequency products. The analog devices work in a host of consumer; industrial; automotive and other applications.

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