



# 704-15K36 & 704-15K36T

## HIGH POWER AIRCRAFT/VEHICLE DC BUS VOLTAGE SUPPRESSOR

### APPLICATIONS

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

### IEC COMPATIBILITY (EN61000-4)

- ✓ 61000-4-5 (Surge): 95A, 8/20µs - Level 4(Line-Gnd) & 48A, Level 4(Line-Line)

### FEATURES

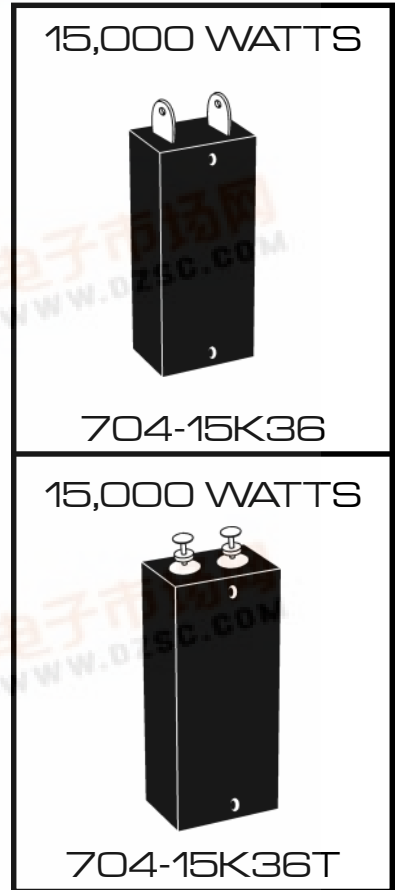
- ✓ *Meets the Following Military Specifications:*  
 - MIL-STD-704                      - MIL-PRF-19500
- ✓ 15 kilowatts Peak Pulse Power per Line ( $t_p=10/1000\mu s$ )
- ✓ Each Device 100% Tested
- ✓ 28V Power Supply Protection

### MECHANICAL CHARACTERISTICS

- ✓ Molded Plastic Case
- ✓ Weight 38 grams: 704-15K36 (Approx.) & 65 grams: 704-15K36T(Approx.)
- ✓ Flammability Rating UL 94V-0
- ✓ Device Marking: Date Code, Logo & Part Number
- ✓ Screening for Military Requirements IAW MIL-PRF-19500 is Available
- ✓ Screening Upon Request - The 704 series can be screened upon request for military requirements in accordance with MIL-PRF-19500. Standard screening consists of 100% JANTX equivalent level testing per MIL-PRF-19500.

For Ordering Options Use the Following Suffix:

- H1 - Submodule Screening
- H2 - Submodule & Module Screening
- H3 - Submodule & Module Screening
- Module Group B & C Lot Testing



MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ( $t_p = 10/1000\mu s$ ) - See Figure 1	$P_{PP}$	15	kilowatts
Operating Temperature	$T_J$	-55°C to 150°C	°C
Storage Temperature	$T_{STG}$	-55°C to 150°C	°C
Forward Surge Rating @ 25°C 1/120 seconds	$F_I$	300	Amps
Steady State Power Dissipation @ 25°C	$T_A$	10	Watts

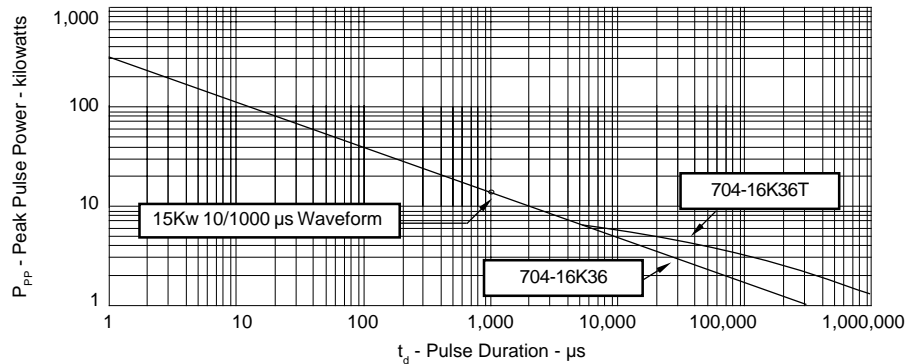


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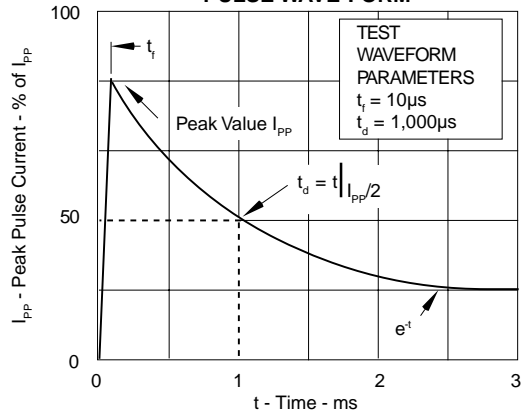
## DEVICE CHARACTERISTICS

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified						
PART NUMBER	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE (See Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM PEAK PULSE CURRENT (See Fig. 2)	MAXIMUM FORWARD VOLTAGE
	$V_{WM}$ VOLTS	@ 10mA $V_{(BR)}$ VOLTS	@ $I_{PPM}$ $V_C$ VOLTS	@ $V_{WM}$ $I_b$ $\mu A$	$I_{PPM}$ AMPS	@ 100A, 8.3ms $I_F$ VOLTS DC
704-15K36	31.5	36	51	100	300	3.0
704-15K36T	31.5	36	51	500	300	15.0

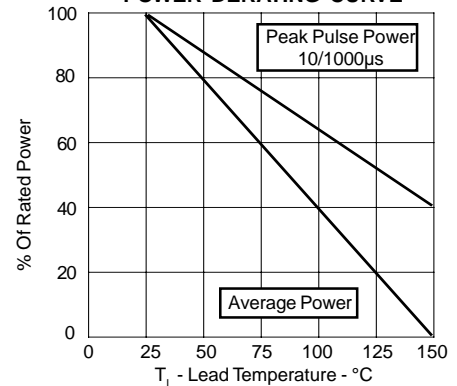
**FIGURE 1  
PEAK PULSE POWER VS PULSE TIME**



**FIGURE 2  
PULSE WAVEFORM**



**FIGURE 3  
POWER DERATING CURVE**



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## PACKAGE OUTLINE & DIMENSIONS

704-15K36 PACKAGE OUTLINE		704-15K36			
		DIMENSIONS			
		MILLIMETERS		INCHES	
DIM		MIN	MAX	MIN	MAX
A		49.28	51.56	1.97	2.03
B		43.92	44.96	1.73	1.77
C		2.79	3.56	0.110	0.140
D		18.29	19.81	0.72	0.78
E*		3.18 DIA	3.18 DIA	0.125 DIA	0.125 DIA
F		8.76	10.29	0.345	0.405
G		13.51	15.04	0.532	0.592
H*		0.69	0.69	0.027	0.027
I		11.94	13.46	0.47	0.53
J		2.41	2.92	0.095	0.115
K		7.70	8.20	0.303	0.323
L		9.40	10.92	0.37	0.43
704-15K36T PACKAGE OUTLINE		704-15K36T			
		DIMENSIONS			
		MILLIMETERS		INCHES	
DIM		MIN	MAX	MIN	MAX
A		62.74	64.26	2.47	2.53
B		53.34	54.48	2.10	2.145
C		4.32	5.33	0.17	0.21
D		10.54	12.07	0.415	0.475
E*		3.18 DIA	3.18 DIA	0.125 DIA	0.125 DIA
F		8.26	9.27	0.325	0.365
G*		11.43	11.43	0.450	0.450
H		21.84	23.37	0.86	0.92
I*		5.59	5.59	0.220	0.220
J		16.51	17.53	0.65	0.69
K*		8.51	8.51	0.335	0.335
06035 Rev 0 - 4/02		Note*: Dimensions are nominal			

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