

DESCRIPTION

The 704-15K36 & 704-15K36T series of transient voltage suppression modules are for use primarily in avionics equipment. This series meets all applicable environmental requirements of MIL-S-19500. The sub-assemblies are metallurgically bonded and packaged in a hermetically sealed package. The hermetically sealed package provides high reliability in harsh environmental conditions. In addition, the subassemblies can be 100% TX screened per MIL-S-19500/516 or /507. Although this series has been designed for 28 volt aircraft applications, different voltages may be special ordered for specific applications.

TVS modules are most often used in applications where discrete TVS diodes do not have high enough surge handling capability to suppress large power surges.

SCREENING:

100% Screening is available per MIL-S-19500/516. For ordering use the following suffix:

H1 - Submodule screening

H2 - Submodule & module screening

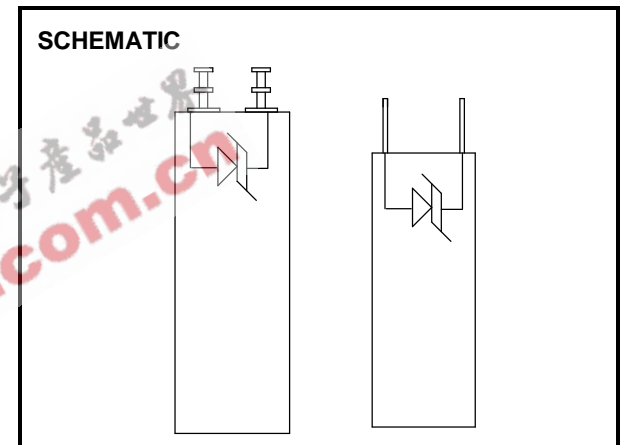
H3 - Submodule & module screening + Group B & C

FEATURES:

- 15,000 watts Peak Pulse Power ($t_p = 10 \times 1000\mu s$)
- 28 Volt power supply protection
- For use in airborne equipment
- Unidirectional
- Custom voltages available from factory.

MECHANICAL CHARACTERISTICS:

- Molded Case
- Readily solderable terminals
- Marking : Logo, part number, and date code



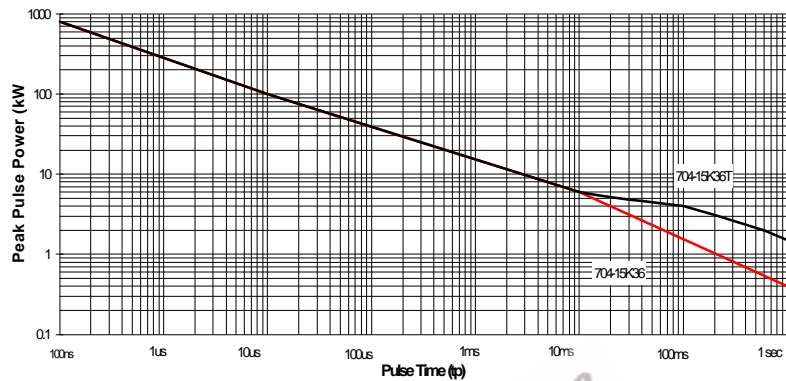
MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power ($t_p = 10 \times 1000\mu s$)	Ppk	15,000	Watts
Operating Temperature	Tj	-65 to +150	°C
Storage Temperature	Tstg	-65 to +150	°C

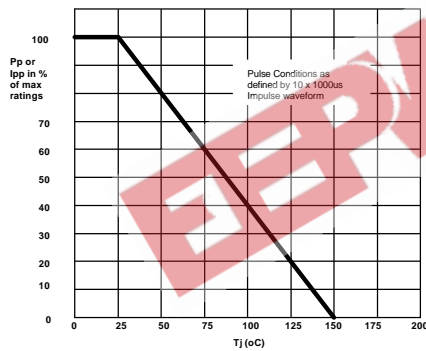
ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise specified)

PART NUMBER	REVERSE STAND-OFF VOLTAGE V_{RWM}	REVERSE LEAKAGE CURRENT I_R	MINIMUM BREAKDOWN VOLTAGE $V_{BR} @ I_R$	TEST CURRENT I_T	MAXIMUM CLAMPING VOLTAGE $V_C @ I_{pp}$	PEAK PULSE CURRENT I_{pp} $T_p = 1ms$	MAXIMUM FORWARD VOLTAGE V_F $I_F = 100A$ $t_F = 8.3ms$
	(V)	(μA)	(V)	(mA)	(V)	(A)	(V)
704-15K36	31.5	100	36	10	51	300	3.0
704-15K36T	31.5	500	36	10	51	300	15.0

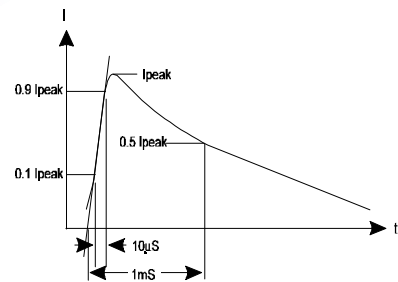
PEAK PULSE POWER vs. PULSE TIME



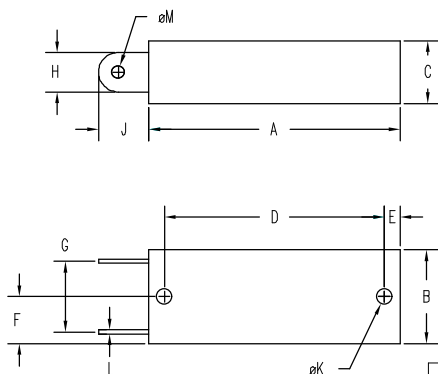
PULSE DERATING CURVE



10/1000μs IMPULSE WAVEFORM

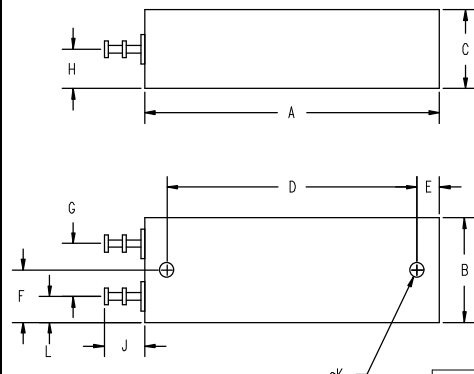


MECHANICAL OUTLINE - 704-15K36



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.97	2.03	50.0	51.6	
B	.72	.76	18.2	19.9	
C	.47	.53	11.9	13.5	
D	1.73	1.77	43.9	45.0	
E	.110	.140	2.7	3.6	
F	.345	.405	8.7	10.3	
G	.532	.592	13.5	15.1	
H	.306	.320	7.7	8.2	
J	.350	.450	8.8	11.5	
øK	.120	.130	3.0	3.3	
L	.027	.037	.68	.94	
øM	.095	.115	2.4	3.0	

MECHANICAL OUTLINE - 704-15K36T



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	2.47	2.53	62.7	64.3	
B	.86	.92	21.8	23.4	
C	.64	.70	16.2	17.8	
D	2.10	2.14	53.3	54.4	
E	.17	.21	4.3	5.4	
F	.415	.475	10.5	12.1	
G	.42	.48	10.6	12.2	
H	.305	.365	7.7	9.3	
J	.325	.365	8.2	9.3	
øK	.120	.130	3.0	3.3	
L	.19	.25	4.8	6.4	