TEL:805-498-2111 FAX:805-498-3804

DESCRIPTION

The 60KS200C & 90KS200C series of bidirectional transient voltage suppression modules are designed for use in shipboard equipment and other power servicing equipment. These modules protect sensitive semiconductor components from transients resulting from power interuptions and shore power switch-over. The sub-assemblies are metallurgically bonded and packaged in a hermetically sealed package. The hermetically sealed package provides high reliability in harsh environmental conditions.
TVS modules are most often used in applications where discrete TVS diodes do not have high enough surge handling capabality to suppress large power surges.

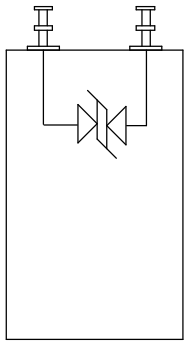
FEATURES:

- 60,000 & 90,000 watts Peak Pulse Power (tp = 1.5 x 40µs)
- 200 Volts Bidirectional
- For use in shipboard power servicing equipment
- Bidirectional
- Custom voltages available from factory.

MECHANICAL CHARACTERISTICS:

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

SCHEMATIC



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

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power (tp = 1.5 x 40µs)	Ppk	60,000 & 90,000	Watts
Operating Temperature	Tj	-65 to +150	°C
Storage Temperature	Tstg	-65 to +150	°C

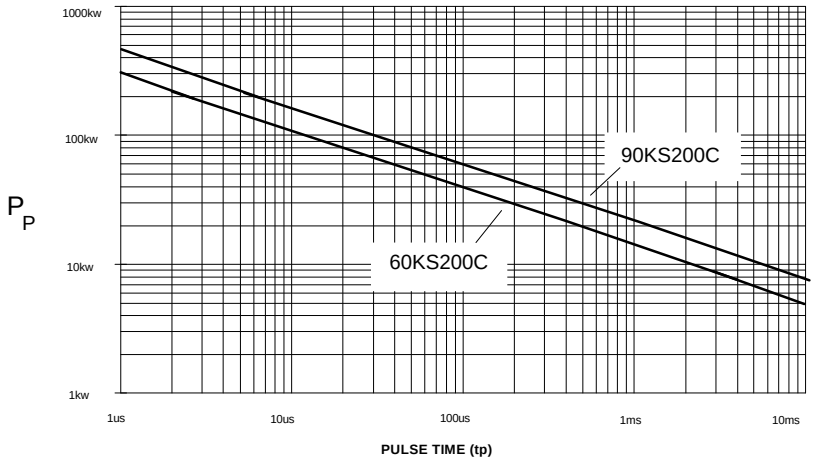
ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise specified)

PART NUMBER	REVERSE STAND-OFF VOLTAGE V_{RWM} (V)	REVERSE LEAKAGE CURRENT I_R (µA)	BREAKDOWN VOLTAGE V_{BR} @ I_T Min. Max (V)	TEST CURRENT I_T (mA)	MAXIMUM CLAMPING VOLTAGE Vc @ Ipp (V)	PEAK PULSE CURRENT Ipp tp = 1.5 x 40µs (A)	MAXIMUM PEAK PULSE POWER tp = 1.5 x 40µs (kw)
60KS200C	180	10	200 - 225	1	335	180	60
90KS200C	180	0.5	200 - 225	1	280	180	90

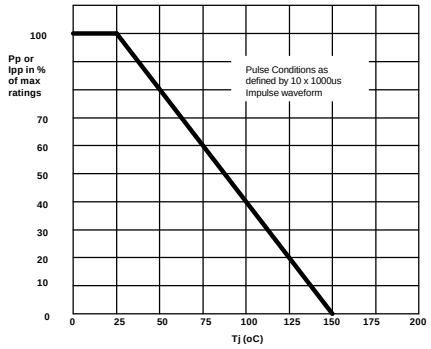
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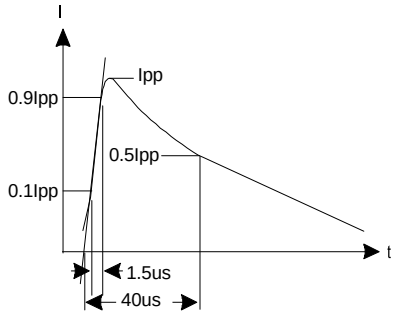
PEAK PULSE POWER vs. PULSE TIME



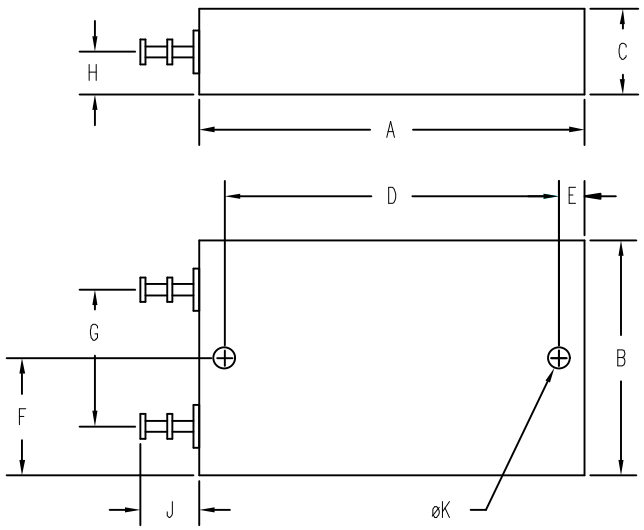
PULSE DERATING CURVE



1.5x40µs IMPULSE WAVEFORM



MECHANICAL OUTLINE



90KS200C

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	2.22	2.50	56.3	63.5	
B	1.35	1.90	34.2	48.3	
C	.47	0.55	11.9	13.9	
D	1.88	1.92	47.8	48.8	
E	.135	0.30	3.4	7.6	
F	.66	0.95	16.7	24.1	
G	.98	1.02	24.9	25.9	
H	.26	.29	6.5	7.5	
J	.325	.365	8.2	9.3	
K	.193	.205	5.35	5.65	DIA.

60KS200C

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	2.22	2.28	56.3	58.0	
B	1.35	1.40	34.2	35.6	
C	.47	.53	11.9	13.5	
D	1.93	1.97	49.0	50.1	
E	.135	.165	3.4	4.2	
F	.66	.72	16.7	18.3	
G	.77	.83	19.5	21.1	
H	.22	.28	5.5	7.2	
J	.325	.365	8.2	9.3	
K	.120	.130	3.0	3.3	DIA.

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