

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 interruptions 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 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

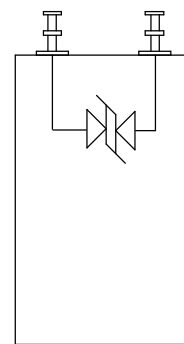
H3 - Submodule & module screening + Group B & C

FEATURES:

- 60,000 & 90,000 watts Peak Pulse Power ($t_p = 1.5 \times 40\mu s$)
- 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

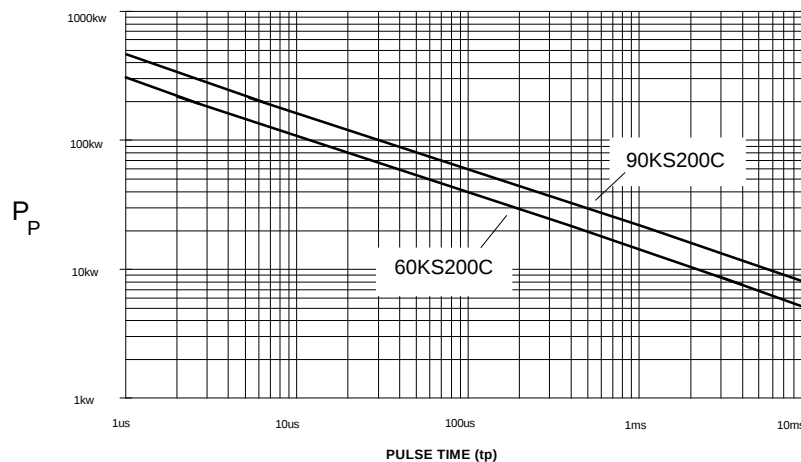
SCHEMATIC**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power ($t_p = 1.5 \times 40\mu s$)	Ppk	60,000 & 90,000	Watts
Operating Temperature	Tj	-65 to +150	°C
Storage Temperature	Tstg	-65 to +150	°C

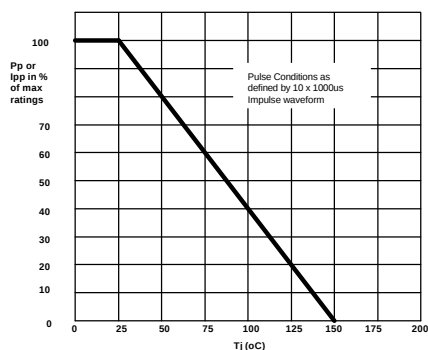
ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise specified)

PART NUMBER	REVERSE STAND-OFF VOLTAGE V_{RWM} (V)	REVERSE LEAKAGE CURRENT I_R (μA)	BREAKDOWN VOLTAGE V_{BR} @ I_R Min. Max. (V)	TEST CURRENT I_T (mA)	MAXIMUM CLAMPING VOLTAGE V_C @ I_{pp} (V)	PEAK PULSE CURRENT I_{pp} $t_p = 1.5 \times 40\mu s$ (A)	MAXIMUM PEAK PULSE POWER $t_p = 1.5 \times 40\mu s$ (kw)
60KS200C	180	10	200 - 225	1	335	180	60
90KS200C	180	0.5	200 - 225	1	280	180	90

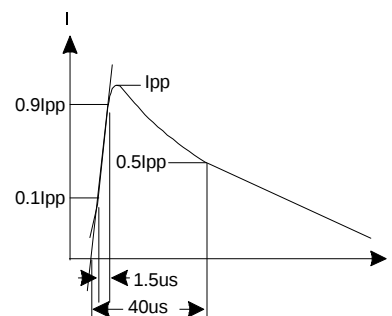
PEAK PULSE POWER vs. PULSE TIME



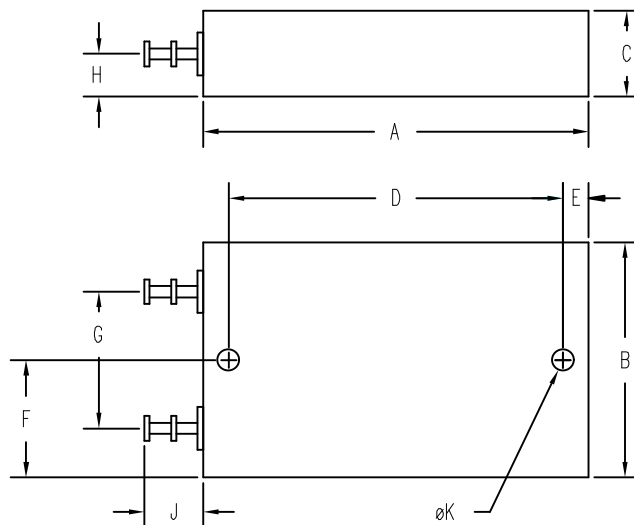
PULSE DERATING CURVE



1.5x40μs IMPULSE WAVEFORM



MECHANICAL OUTLINE



90KS200C

DIMENSIONS					
DIM ^N	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 ^N	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.