

**ELECTRICAL CHARACTERISTICS** ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

DEVICE TYPE	DEVICE MARKING CODE	BREAKDOWN VOLTAGE $V_{BR}^{(1)}$ (V) AT I_T		TEST CURRENT I_T (mA)	STAND-OFF VOLTAGE V_{WM} (V)	MAXIMUM REVERSE LEAKAGE AT V_{WM} I_D (μA)	MAX. PEAK PULSE SURGE CURRENT $I_{PPM}^{(2)}$ (A)	MAXIMUM CLAMPING VOLTAGE AT I_{PPM} V_C (V)
		MIN.	MAX.					
SMC3K22CA	3BEX	24.4	26.9	1.0	22	2.0	84.5	35.5
SMC3K24CA	3BEZ	26.7	29.5	1.0	24	2.0	77.1	38.9
SMC3K26CA	3BFE	28.9	31.9	1.0	26	2.0	71.3	42.1
SMC3K28CA	3BFG	31.1	34.4	1.0	28	2.0	66.1	45.4
SMC3K30CA	3BFK	33.3	36.8	1.0	30	2.0	62.0	48.4
SMC3K33CA	3BFM	36.7	40.6	1.0	33	2.0	56.3	53.3
SMC3K36CA	3BFP	40.0	44.2	1.0	36	2.0	51.6	58.1
SMC3K40CA	3BFR	44.4	49.1	1.0	40	2.0	46.5	64.5
SMC3K43CA	3BFT	47.8	52.8	1.0	43	2.0	43.2	69.4
SMC3K45CA	3GFV	50.0	55.3	1.0	45	2.0	41.3	72.7
SMC3K48CA	3GFX	53.3	58.9	1.0	48	2.0	38.8	77.4
SMC3K51CA	3GFZ	56.7	62.7	1.0	51	2.0	36.4	82.4
SMC3K54CA	3GGE	60.0	66.3	1.0	54	2.0	34.4	87.1
SMC3K58CA	3GGG	64.4	71.2	1.0	58	2.0	32.1	93.6
SMC3K60CA	3GGK	66.7	73.7	1.0	60	2.0	31.0	96.8
SMC3K64CA	3GGM	71.1	78.6	1.0	64	2.0	29.1	103
SMC3K70CA	3GGP	77.8	86.0	1.0	70	2.0	26.5	113
SMC3K75CA	3GGR	83.3	92.1	1.0	75	2.0	24.8	121
SMC3K78CA	3GGT	86.7	95.8	1.0	78	2.0	23.8	126

Notes(1) Pulse test: $t_p \leq 50\text{ ms}$

(2) Surge current waveform per fig. 3 and derated per fig.2

(3) All terms and symbols are consistent with ANSI/IEEE C62.35

ORDERING INFORMATION (Example)

PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SMC3K22CA-M3/57	0.257	57	850	7" diameter plastic tape and reel
SMC3K22CA-M3/9A	0.257	9A	3500	13" diameter plastic tape and reel
SMC3K22CAHM3/57 ⁽¹⁾	0.257	57	850	7" diameter plastic tape and reel
SMC3K22CAHM3/9A ⁽¹⁾	0.257	9A	3500	13" diameter plastic tape and reel

Note

(1) AEC-Q101 qualified



RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

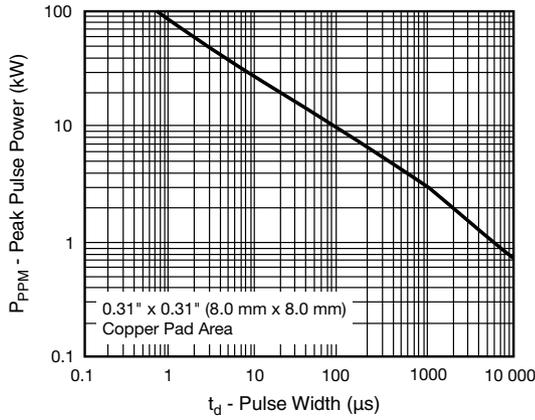


Fig. 1 - Peak Pulse Power Derating Curve

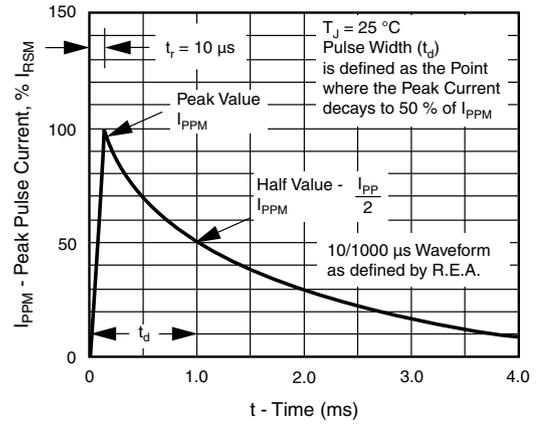


Fig. 3 - Pulse Waveform

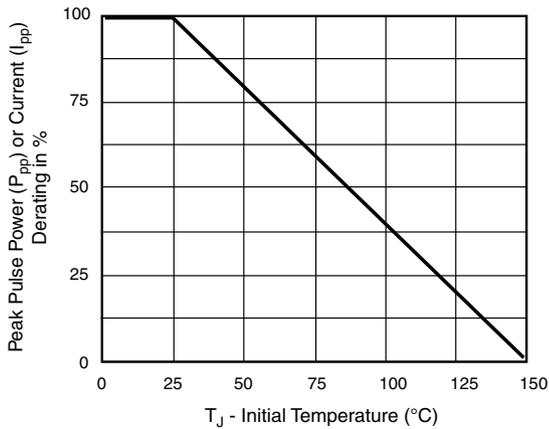


Fig. 2 - Pulse Power or Current vs. Initial Junction Temperature

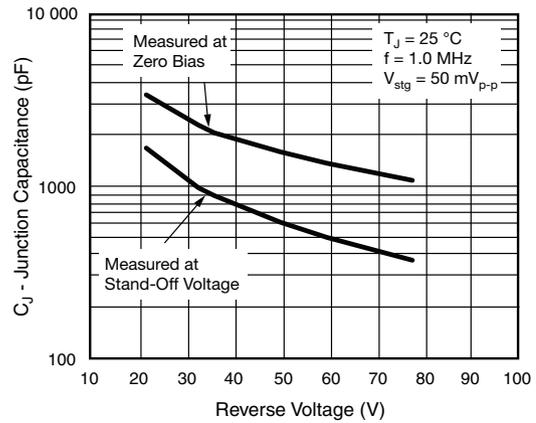
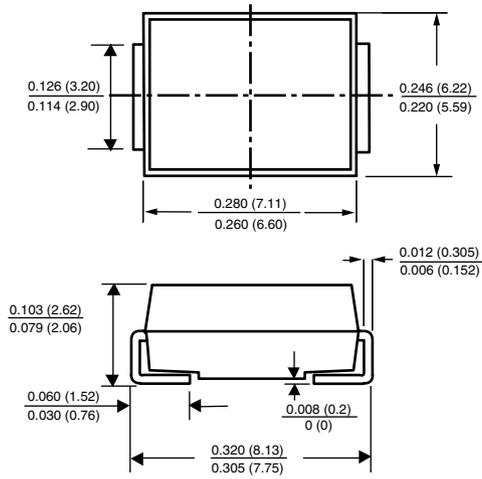


Fig. 4 - Typical Junction Capacitance

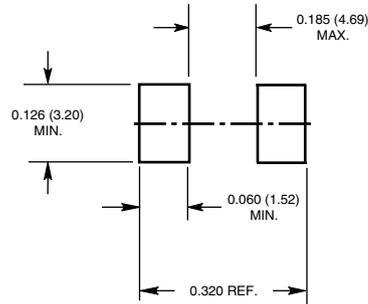


PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

SMC (DO-214AB)



Mounting Pad Layout





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