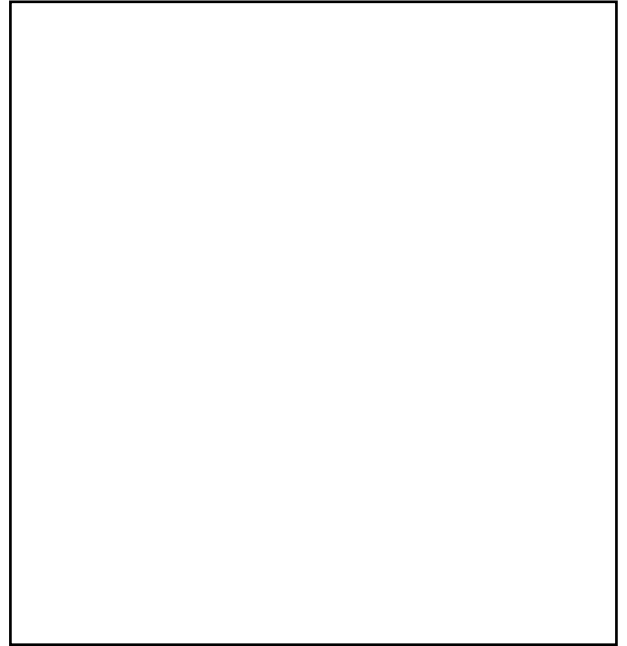




FEATURES



Mechanical Data

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS



ZENER OVERVOLTAGE TRANSIENT SUPPRESSOR

SMF5.0A THRU SMF170A

5.0V-170V 175-200W

ELECTRICAL CHARACTERISTICS ($T_L = 30^\circ\text{C}$ unless otherwise noted $V_F = 1.25$ Volts @ 200 mA)

Type No.	Marking	Working Peak Reverse Voltage ⁽¹⁾	Breakdown Voltage @ †			Test Current	Max. Reverse Leakage Current	Max. Clamping Voltage at I_P	Max. Reverse Peak Pulse Current ⁽³⁾
		V_{RWM}	$V_{BR} @ I_T$			I_T	$I_R @ V_{RWM}$	V_C	I_{PP}
		(V)	Min	Nom	Max.	(mA)	(A)	(V)	(mA)
SMF5.0A	AG	5.0	6.40	6.70	7.00	10	400	9.2	21.7
SMF6.0A	AE	6.0	6.67	7.02	7.37	10	400	10.3	19.4
SMF6.5A	KK	6.5	7.22	7.60	7.98	10	250	11.2	17.9
SMF7.0A	KM	7.0	7.78	8.20	8.60	10	100	12.0	16.7
SMF7.5A	KP	7.5	8.33	8.77	9.21	1.0	50	12.9	15.5
SMF8.0A	KR	8.0	8.89	9.36	9.83	1.0	25	13.6	14.7
SMF8.5A	KT	8.5	9.44	9.92	10.4	1.0	10	14.4	13.9
SMF9.0A	KV	9.0	10.0	10.55	11.1	1.0	5.0	15.4	13.0
SMF10A	KX	10	11.1	11.70	12.3	1.0	2.5	17.0	11.8
SMF11A	KZ	11	12.2	12.85	13.5	1.0	2.5	18.2	11.0
SMF12A	LE	12	13.3	14.00	14.7	1.0	2.5	19.9	10.1
SMF13A	LG	13	14.4	15.15	15.9	1.0	1.0	21.5	9.3
SMF14A	LK	14	15.6	16.40	17.2	1.0	1.0	23.2	8.6
SMF15A	LM	15	16.7	17.60	18.5	1.0	1.0	24.4	8.2
SMF16A	LP	16	17.8	18.75	19.7	1.0	1.0	26.0	7.7
SMF17A	LR	17	18.9	19.90	20.9	1.0	1.0	27.6	7.2
SMF18A	LT	18	20.0	21.00	22.1	1.0	1.0	29.2	6.8
SMF20A	LV	20	22.2	23.35	24.5	1.0	1.0	32.4	6.2
SMF22A	LX	22	24.4	25.60	26.9	1.0	1.0	35.5	5.6
SMF24A	LZ	24	26.7	28.10	29.5	1.0	1.0	38.9	5.1
SMF26A	ME	26	28.9	30.40	31.9	1.0	1.0	42.1	4.8
SMF28A	MG	28	31.1	32.80	34.4	1.0	1.0	45.4	4.4
SMF30A	MK	30	33.3	35.10	36.8	1.0	1.0	48.4	4.1
SMF33A	MM	33	36.7	38.70	40.6	1.0	1.0	53.3	3.8
SMF36A	MP	36	40.0	42.10	44.2	1.0	1.0	58.1	3.4
SMF40A	MR	40	44.4	46.80	49.1	1.0	1.0	64.5	3.1
SMF43A	MT	43	47.8	50.30	52.8	1.0	1.0	69.4	2.9
SMF45A	MV	45	50.0	52.65	55.3	1.0	1.0	72.7	2.8
SMF48A	MX	48	53.3	56.10	58.9	1.0	1.0	77.4	2.6
SMF51A	MZ	51	56.7	59.70	62.7	1.0	1.0	82.4	2.4
SMF54A	NE	54	60.0	63.15	66.3	1.0	1.0	87.1	2.3
SMF58A	NG	58	64.4	67.80	71.2	1.0	1.0	93.6	2.1
SMF60A	NK	60	66.7	70.20	73.7	1.0	1.0	96.8	1.8
SMF64A	NM	64	71.1	74.85	78.6	1.0	1.0	103	1.7
SMF70A	NP	70	77.8	81.90	86.0	1.0	1.0	113	1.5
SMF75A	NR	75	83.3	87.70	92.1	1.0	1.0	121	1.4
SMF78A	NT	78	86.7	91.25	95.8	1.0	1.0	126	1.4
SMF85A	NV	85	94.4	99.20	104	1.0	1.0	137	1.3
SMF90A	NX	90	100	105.50	111	1.0	1.0	146	1.2
SMF100A	NZ	100	111	117.00	123	1.0	1.0	162	1.1
SMF110A	PE	110	122	128.50	135	1.0	1.0	177	1.0
SMF120A	PG	120	133	140.00	147	1.0	1.0	193	0.9
SMF130A	PK	130	144	151.50	159	1.0	1.0	209	0.8
SMF150A	PM	150	167	176.00	185	1.0	1.0	243	0.7
SMF160A	PP	160	178	187.50	197	1.0	1.0	259	0.7
SMF170A	PR	170	189	199.00	209	1.0	1.0	275	0.6

Notes :

- (1) A transient suppressor is normally selected according to the Working Peak Reverse Voltage (V_{RWM}) which should be equal to or greater than the DC or continuous peak operating voltage level.
- (2) V_{BR} measured at pulse test current † at ambient temperature $\pm 25^\circ\text{C}$.