

15KW17A
thru
15KW280A

15,000 WATT TRANSIENT VOLTAGE SUPPRESSOR

AVAILABLE IN VOLTAGES FROM 19.9V THRU 327.5V

The NES 15KW series of transient suppressor diodes are designed to protect electronic equipment from failure due to high voltage transients. Because of their special internal design, rapid junction cooling under pulse power stress is possible. This characteristic makes these devices especially useful in the protection of airborne, telephone and other industrial types of equipment normally subject to large voltage transients. As protective devices they are intended to be used as voltage clamps under sustained voltage stress until normal fusing devices open the circuits. The normal failure mode under sustained current overload is short circuit.

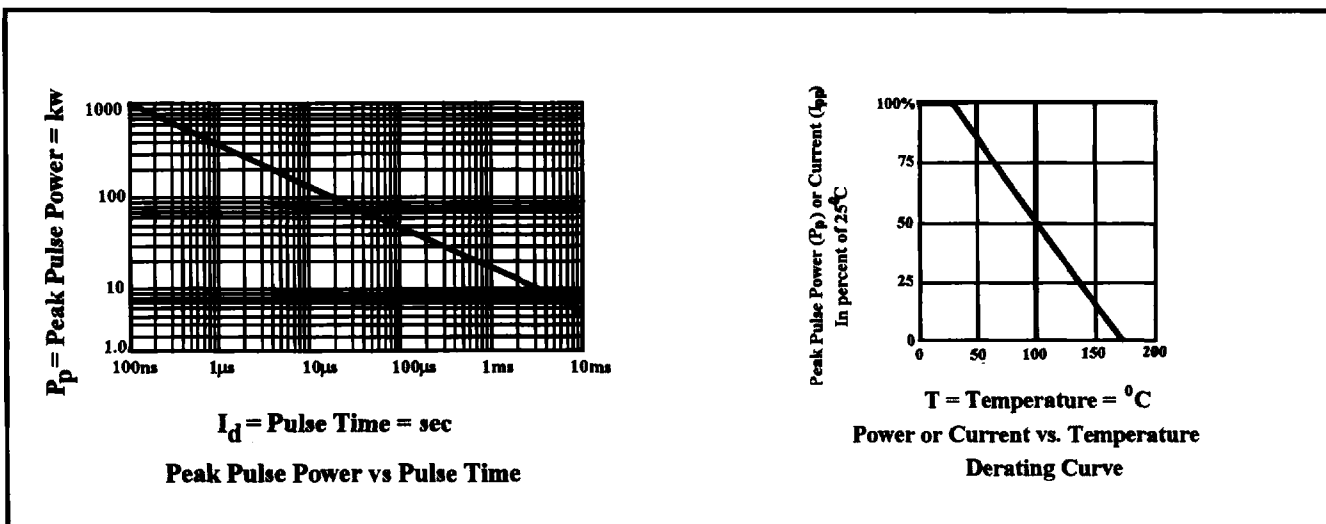
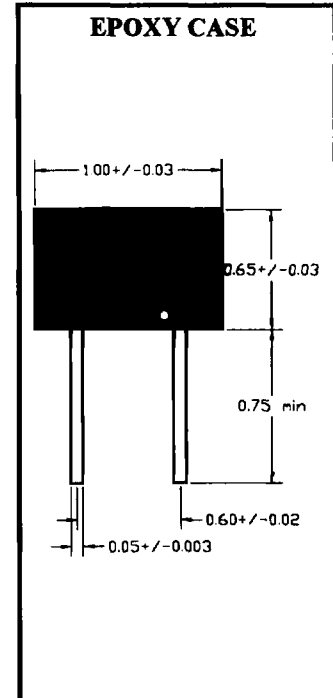
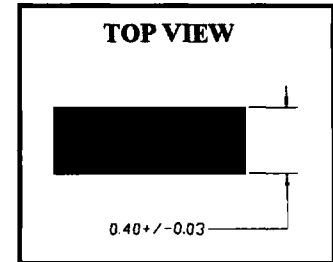
MAXIMUM RATINGS:

- 15,000 Watts of Peak Pulse Power Dissipation @ 25° C
- t_{clamping} (0 volts to BV min): 1×10^{-12} seconds
- Operating and Storage Temperature: -35° C to +150° C
- Steady State Power Dissipation: 7.0 watts @ T_A = 25° C
- Repetition Rate (Duty Cycle): 0.05%

FEATURES:

- EPOXY CASE
- MATTE TIN PLATED COPPER LEADS
- POLARITY DOT DENOTES CATHODE END
- MONOPOLAR DESIGN
- CUSTOM DESIGNS AVAILABLE*

*CONSULT FACTORY



NE009 1/96

NEW ENGLAND SEMICONDUCTOR

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Part Number*	Reverse Stand-off voltage V_R volts	Breakdown Voltage BV @ volts	I_T mA	Maximum clamping volt @ I_{PP} (1mSec) V_c Volts	Maximum Reverse Leakage $I_R @ V_R$ μA	Maximum Peak Pulse Current I_{PP} A	Max. Volt. Temp. Var of BV mV/ C
15KW17A	17	19.9	50	29.3	5000	512	17
15KW18A	18	21.0	50	30.9	5000	485	18
15KW20A	20	23.3	20	34.3	1500	437	21
15KW22A	22	25.6	10	37.1	500	404	24
15KW24A	24	28.0	5	40.7	150	369	27
15KW26A	26	30.4	5	44.0	50	341	29
15KW28A	28	32.7	5	47.5	25	316	31
15KW30A	30	35.0	5	50.7	15	296	34
15KW33A	33	38.6	5	54.8	10	274	38
15KW36A	36	42.1	5	59.7	10	251	41
15KW40A	40	46.7	5	65.8	10	228	46
15KW43A	43	50.3	5	69.7	10	215	50
15KW46A	46	52.6	5	73.0	10	205	52
15KW48A	48	56.1	5	77.7	10	193	56
15KW51A	51	60.1	5	82.8	10	181	60
15KW54A	54	63.1	5	87.5	10	171	63
15KW58A	58	67.8	5	94.0	10	160	68
15KW60A	60	70.2	5	97.3	10	154	71
15KW64A	64	74.8	5	104.0	10	144	76
15KW70A	70	81.9	5	114.0	10	132	83
15KW75A	75	87.7	5	122.0	10	123	89
15KW78A	78	91.2	5	126.0	10	119	93
15KW85A	85	99.2	5	137.0	10	109	102
15KW90A	90	105.5	5	146.0	10	103	109
15KW100A	100	117.0	5	162.0	10	93	121
15KW110A	110	128.5	5	178.0	10	84	133
15KW120A	120	140.0	5	193.0	10	78	145
15KW130A	130	151.5	5	209.0	10	72	157
15KW150A	150	176.0	5	243.0	10	62	183
15KW160A	160	187.5	5	259.0	10	58	195
15KW170A	170	199.0	5	275.0	10	55	207
15KW180A	180	210.5	5	291.0	10	52	219
15KW200A	200	233.5	5	322.0	10	47	243
15KW220A	220	258.0	5	356.0	10	42	269
15KW240A	240	281.0	5	388.0	10	39	293
15KW260A	260	304.0	5	419.0	10	36	317
15KW280A	280	327.5	5	452.0	10	33	342

*Suffix 'A' indicates $\pm 5\%$ tolerance

No Suffix indicates $\pm 10\%$ tolerance