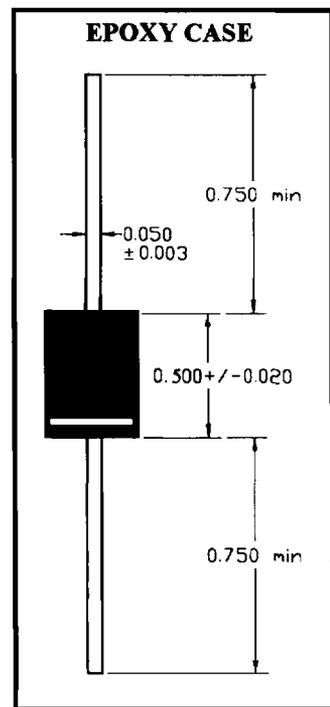
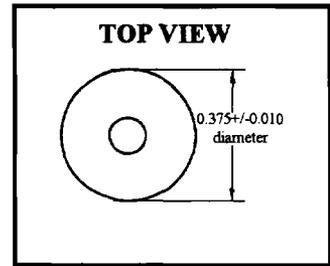


20KP33A
thru
20KP280A

20,000 WATT TRANSIENT VOLTAGE SUPPRESSOR

AVAILABLE IN VOLTAGES FROM 38.6V THRU 327.5V

The NES 20KP 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:

20,000 Watts of Peak Pulse Power Dissipation @ 25°C

t_{clamping} (0 volts to BV min), < 1 x 10⁻¹² seconds

Operating and Storage Temperature: -35°C to +150°C

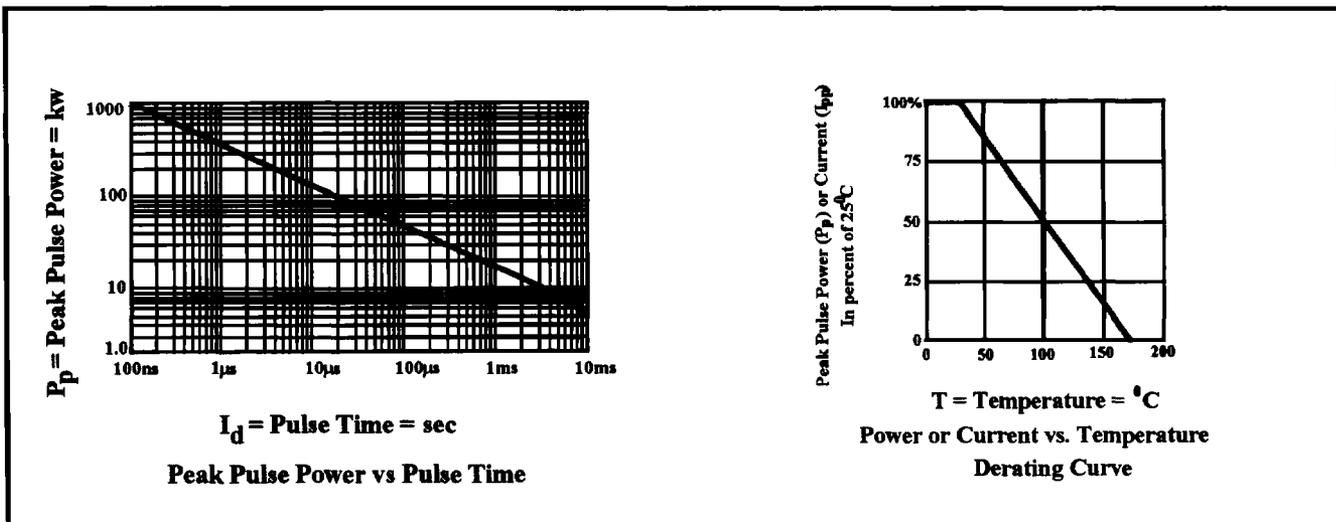
Steady State Power Dissipation: 7.0 watts @ T_A = 25°C

Duty Cycle: 0.05%

FEATURES:

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

* CONSULT FACTORY



NEW ENGLAND SEMICONDUCTOR

**20KP33A
thru
20KP280A**

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. Var of BV $mV/^{\circ}C$
20KP33A	33	38.6	5	54.8	10	274	38
20KP36A	36	42.1	5	59.7	10	251	41
20KP40A	40	46.7	5	65.8	10	228	46
20KP43A	43	50.3	5	69.7	10	215	50
20KP46A	46	52.6	5	73.0	10	205	52
20KP48A	48	56.1	5	77.7	10	193	56
20KP51A	51	60.1	5	82.8	10	181	60
20KP54A	54	63.1	5	87.5	10	171	63
20KP58A	58	67.8	5	94.0	10	160	68
20KP60A	60	70.2	5	97.3	10	154	71
20KP64A	64	74.8	5	104.0	10	144	76
20KP70A	70	81.9	5	114.0	10	132	83
20KP75A	75	87.7	5	122.0	10	123	89
20KP78A	78	91.2	5	126.0	10	119	93
20KP85A	85	99.2	5	137.0	10	109	102
20KP90A	90	105.5	5	146.0	10	103	109
20KP100A	100	117.0	5	162.0	10	93	121
20KP110A	110	128.5	5	178.0	10	84	133
20KP120A	120	140.0	5	193.0	10	78	145
20KP130A	130	151.5	5	209.0	10	72	157
20KP150A	150	176.0	5	243.0	10	62	183
20KP160A	160	187.5	5	259.0	10	58	195
20KP170A	170	199.0	5	275.0	10	55	207
20KP180A	180	210.5	5	291.0	10	52	219
20KP200A	200	233.5	5	322.0	10	47	243
20KP220A	220	258.0	5	356.0	10	42	269
20KP240A	240	281.0	5	388.0	10	39	293
20KP260A	260	304.0	5	419.0	10	36	317
20KP280A	280	327.5	5	452.0	10	33	342

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

*No Suffix indicates $\pm 10\%$ tolerance