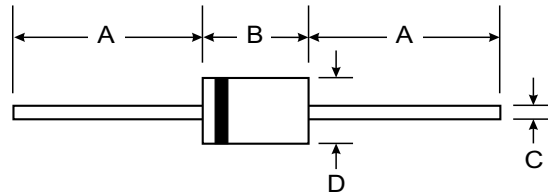


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction
- 20000W Peak Pulse Power capability on 10/1000 μ s waveform
- Excellent clamping capability
- Repetition rate (duty cycle):0.05%
- Low incremental surge resistance
- Fast response time: typically less than 1.0 ps from 0 volts to BV
- Typical Id less than 1 μ A above 10V
- High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension



R-6		
Dim	Min	Max
A	25.4	—
B	8.60	9.10
C	1.20	1.30
D	8.60	9.10
All Dimensions in mm		

Mechanical Data

- Case: Molded plastic over glass passivated junction
- Terminals: Plated Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denoted positive end (cathode) except Bipolar
- Mounting Position: Any
- Weight: 0.07 ounce, 2.1 gram

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000 μ s waveform (NOTE 1)	P _{ppm}	Minimum 20000	Watts
Peak Pulse Current of on 10-1000 μ s waveform (NOTE 1)	I _{ppm}	SEE TABLE 1	Amps
Steady State Power Dissipation at T _I =75 °C Lead Lengths .375", (9.5mm)(NOTE 2)	P _{m(AV)}	8.0	Watts
Peak Forward Surge Current, 8.3ms Sine-Wave Superimposed on Rated Load, (JEDEC Method) (NOTE 3)	I _{FSM}	400.0	Amps
Operating and Storage Temperature Range	T _j , T _{stg}	-55 to +175	°C

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above T_a=25 °C per Fig.2.
2. Mounted on Copper Pad area of 0.8x0.8" (20x20mm) per Fig.5.
3. 8.3ms single half sine-wave, or equivalent square wave, Duty cycle=4 pulses per minutes maximum



Part Number	REVERSE STANDOFF VOLTAGE V_{RWM} (V)	BREAKDOWN VOLTAGE V_{BR} (V) MIN. @ I_T	TEST CURRENT (I_T) mA	MAXIMUM CLAMPING VOLTAGE @ I_{PP} V_c (V)	PEAK PULSE CURRENT I_{PP} (A)	REVERSE LEAKAGE @ V_{RWM} I_R (μA)
20KPA20CA 20KPA20A	20.00 20.00	22.34 22.34	50 50	36.8 36.8	548.9 548.9	5000 5000
20KPA24CA 20KPA24A	24.00 24.00	26.81 26.81	50 50	41.2 41.2	490.3 490.3	5000 5000
20KPA26CA 20KPA26A	26.00 26.00	29.04 29.04	50 50	44.7 44.7	451.9 451.9	2000 2000
20KPA28CA 20KPA28A	28.00 28.00	31.28 31.28	50 50	48.0 48.0	420.8 420.8	1000 1000
20KPA30CA 20KPA30A	30.00 30.00	33.51 33.51	5 5	51.5 51.5	392.2 392.2	250 250
20KPA32CA 20KPA32A	32.00 32.00	35.74 35.74	5 5	54.3 54.3	372.0 372.0	150 150
20KPA34CA 20KPA34A	34.00 34.00	38.00 38.00	5 5	57.5 57.5	351.3 351.3	50 50
20KPA36CA 20KPA36A	36.00 36.00	40.20 40.20	5 5	61.5 61.5	328.5 328.5	20 20
20KPA40CA 20KPA40A	40.00 40.00	44.70 44.70	5 5	67.8 67.8	297.9 297.9	15 15
20KPA44CA 20KPA44A	44.00 44.00	49.10 49.10	5 5	72.7 72.7	277.9 277.9	10 10
20KPA48CA 20KPA48A	48.00 48.00	53.60 53.60	5 5	79.4 79.4	254.4 254.4	10 10
20KPA52CA 20KPA52A	52.00 52.00	58.10 58.10	5 5	85.8 85.8	235.4 235.4	10 10
20KPA56CA 20KPA56A	56.00 56.00	62.60 62.60	5 5	92.6 92.6	218.1 218.1	10 10
20KPA60CA 20KPA60A	60.00 60.00	67.00 67.00	5 5	97.6 97.6	207.0 207.0	10 10
20KPA64CA 20KPA64A	64.00 64.00	71.50 71.50	5 5	104.0 104.0	194.2 194.2	10 10
20KPA68CA 20KPA68A	68.00 68.00	76.00 76.00	5 5	110.0 110.0	183.6 183.6	10 10
20KPA72CA 20KPA72A	72.00 72.00	80.40 80.40	5 5	116.0 116.0	174.1 174.1	10 10
20KPA80CA 20KPA80A	80.00 80.00	89.40 89.40	5 5	130.0 130.0	155.4 155.4	10 10
20KPA88CA 20KPA88A	88.00 88.00	98.30 98.30	5 5	142.0 142.0	142.3 142.3	10 10
20KPA96CA 20KPA96A	96.00 96.00	107.20 107.20	5 5	155.0 155.0	130.3 130.3	10 10

For bidirectional type having V_{RWM} of 40 volts and less, the I_R limit is double

For parts without A , the V_{BR} is $\pm 10\%$

Part Number	REVERSE STANDOFF VOLTAGE V_{RWM} (V)	BREAKDOWN VOLTAGE V_{BR} (V) MIN. @ I_T	TEST CURRENT (I_T) mA	MAXIMUM CLAMPING VOLTAGE @ I_{PP} V_C (V)	PEAK PULSE CURRENT I_{PP} (A)	REVERSE LEAKAGE @ V_{RWM} I_R (μA)
20KPA104CA	104.00	116.20	5	168.0	120.2	10
20KPA104A	104.00	116.20	5	168.0	120.2	10
20KPA112CA	112.00	125.10	5	182.0	111.0	10
20KPA112A	112.00	125.10	5	182.0	111.0	10
20KPA120CA	120.00	134.00	5	194.0	104.1	10
20KPA120A	120.00	134.00	5	194.0	104.1	10
20KPA132CA	132.00	147.40	5	213.0	94.8	10
20KPA132A	132.00	147.40	5	213.0	94.8	10
20KPA144CA	144.00	160.80	5	232.0	87.1	10
20KPA144A	144.00	160.80	5	232.0	87.1	10
20KPA160CA	160.00	178.70	5	258.0	78.3	10
20KPA160A	160.00	178.70	5	258.0	78.3	10
20KPA172CA	172.00	192.10	5	277.0	72.9	10
20KPA172A	172.00	192.10	5	277.0	72.9	10
20KPA180CA	180.00	201.10	5	291.0	69.4	10
20KPA180A	180.00	201.10	5	291.0	69.4	10
20KPA192CA	192.00	214.50	5	309.0	65.4	10
20KPA192A	192.00	214.50	5	309.0	65.4	10
20KPA204CA	204.00	227.90	5	329.0	61.4	10
20KPA204A	204.00	227.90	5	329.0	61.4	10
20KPA216CA	216.00	241.30	5	348.0	58.0	10
20KPA216A	216.00	241.30	5	348.0	58.0	10
20KPA232CA	232.00	259.10	5	374.0	54.0	10
20KPA232A	232.00	259.10	5	374.0	54.0	10
20KPA240CA	240.00	268.10	5	387.0	52.2	10
20KPA240A	240.00	268.10	5	387.0	52.2	10
20KPA256CA	256.00	286.00	5	412.0	49.0	10
20KPA256A	256.00	286.00	5	412.0	49.0	10
20KPA280CA	280.00	312.80	5	451.0	44.6	10
20KPA280A	280.00	312.80	5	451.0	44.6	10
20KPA300CA	300.00	335.10	5	483.0	41.8	10
20KPA300A	300.00	335.10	5	483.0	41.8	10

For bidirectional type having V_{RWM} of 40 volts and less, the I_R limit is double
For parts without A, the V_{BR} is $\pm 10\%$

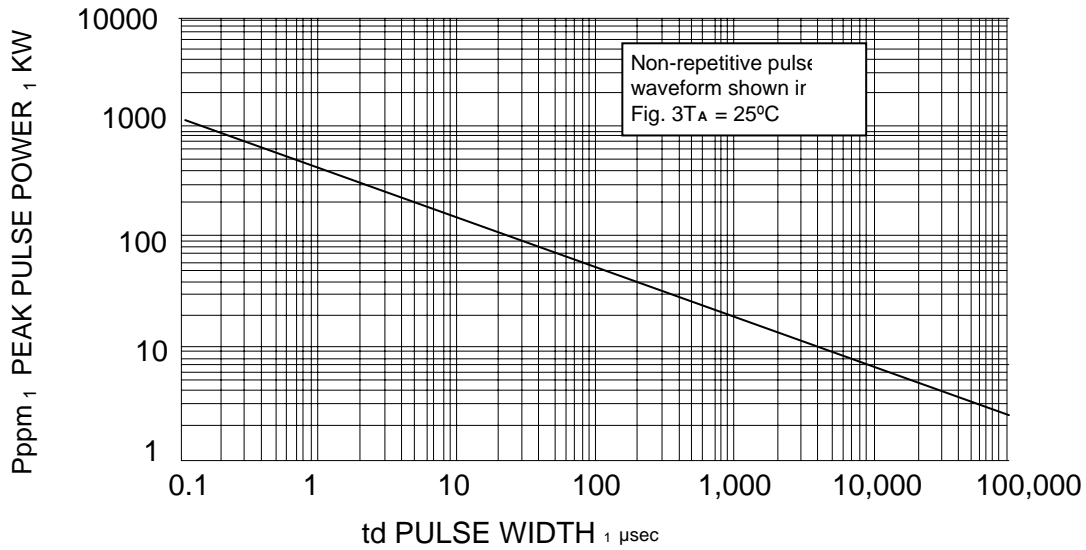


FIG. 1 PEAK PULSE POWER RATING

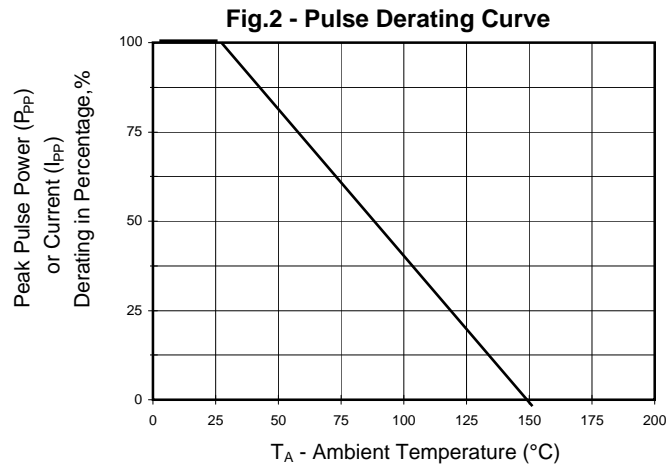


Fig.2 - Pulse Derating Curve

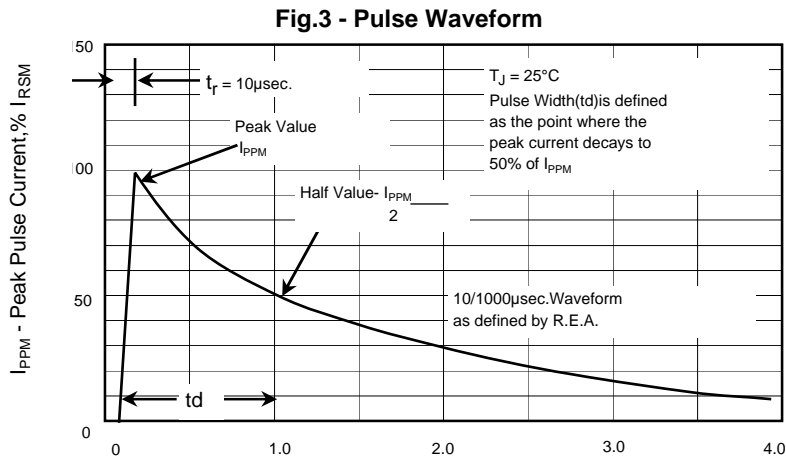


Fig.3 - Pulse Waveform