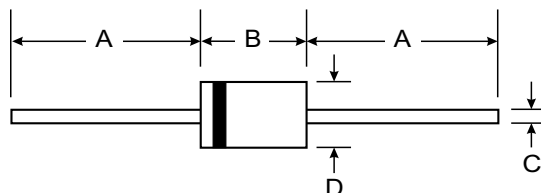


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction
- 30000W 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 I_d 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 @ $T_A = 25^\circ\text{C}$ unless otherwise specified

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000 μ s waveform (NOTE 1)	P_{PPM}	Minimum 30000	Watts
Peak Pulse Current of on 10-1000 μ s waveform (NOTE 1)	I_{PPM}	SEE TABLE 1	Amps
Steady State Power Dissipation at $T_I=75^\circ\text{C}$ 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
Operatings and Storage Temperature Range	T_J, T_{STG}	-55 to +175	$^\circ\text{C}$

NOTES:

- 1.Non-repetitive current pulse, per Fig.3 and derated above $T_a=25^\circ\text{C}$ 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)
30KPA28CA	28.00	31.3	50	50.0	606.0	5000
30KPA28A	28.00	31.3	50	50.0	606.0	5000
30KPA30CA	30.00	33.5	50	55.2	548.9	5000
30KPA30A	30.00	33.5	50	55.2	548.9	5000
30KPA33CA	33.00	36.9	50	58.5	517.2	5000
30KPA33A	33.00	36.9	50	58.5	517.2	5000
30KPA36CA	36.00	40.2	50	61.8	490.3	5000
30KPA36A	36.00	40.2	50	61.8	490.3	5000
30KPA39CA	39.00	43.6	20	67.2	450.9	2000
30KPA39A	39.00	43.6	20	67.2	450.9	2000
30KPA42CA	42.00	46.9	10	72.0	420.8	1000
30KPA42A	42.00	46.9	10	72.0	420.8	1000
30KPA43CA	43.00	48.0	10	73.0	415.1	1000
30KPA43A	43.00	48.0	10	73.0	415.1	1000
30KPA45CA	45.00	50.3	5	77.4	391.5	250
30KPA45A	45.00	50.3	5	77.4	391.5	250
30KPA48CA	48.00	53.6	5	81.6	371.3	150
30KPA48A	48.00	53.6	5	81.6	371.3	150
30KPA51CA	51.00	57.0	5	86.4	350.7	50
30KPA51A	51.00	57.0	5	86.4	350.7	50
30KPA54CA	54.00	60.3	5	91.4	331.5	20
30KPA54A	54.00	60.3	5	91.4	331.5	20
30KPA58CA	58.00	64.8	5	92.4	327.9	20
30KPA58A	58.00	64.8	5	92.4	327.9	20
30KPA60CA	60.00	67.0	5	102.0	297.1	15
30KPA60A	60.00	67.0	5	102.0	297.1	15
30KPA64CA	64.00	71.5	5	104.0	291.3	10
30KPA64A	64.00	71.5	5	104.0	291.3	10
30KPA66CA	66.00	73.7	5	107.0	283.2	10
30KPA66A	66.00	73.7	5	107.0	283.2	10
30KPA70CA	70.00	78.2	5	109.0	278.0	10
30KPA70A	70.00	78.2	5	109.0	278.0	10
30KPA71CA	71.00	79.3	5	111.5	271.7	10
30KPA71A	71.00	79.3	5	111.5	271.7	10
30KPA72CA	72.00	80.4	5	114.0	265.8	10
30KPA72A	72.00	80.4	5	114.0	265.8	10
30KPA75CA	75.00	83.8	5	119.4	253.8	10
30KPA75A	75.00	83.8	5	119.4	253.8	10
30KPA78CA	78.00	87.1	5	129.0	234.0	10
30KPA78A	78.00	87.1	5	129.0	234.0	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)
30KPA84CA	84.00	93.8	5	139.2	217.7	10
30KPA84A	84.00	93.8	5	139.2	217.7	10
30KPA90CA	90.00	100.5	5	146.4	207.0	10
30KPA90A	90.00	100.5	5	146.4	207.0	10
30KPA96CA	96.00	107.2	5	156.0	194.2	10
30KPA96A	96.00	107.2	5	156.0	194.2	10
30KPA102CA	102.00	113.9	5	165.6	183.0	10
30KPA102A	102.00	113.9	5	165.6	183.0	10
30KPA108CA	108.00	120.6	5	175.2	172.9	10
30KPA108A	108.00	120.6	5	175.2	172.9	10
30KPA120CA	120.00	134.0	5	194.4	155.9	10
30KPA120A	120.00	134.0	5	194.4	155.9	10
30KPA132CA	132.00	147.4	5	213.0	142.3	10
30KPA132A	132.00	147.4	5	213.0	142.3	10
30KPA144CA	144.00	160.8	5	223.2	135.8	10
30KPA144A	144.00	160.8	5	223.2	135.8	10
30KPA150CA	150.00	167.6	5	233.4	129.8	10
30KPA150A	150.00	167.6	5	233.4	129.8	10
30KPA156CA	156.00	174.3	5	245.0	123.7	10
30KPA156A	156.00	174.3	5	245.0	123.7	10
30KPA160CA	160.00	178.7	5	252.6	120.0	10
30KPA160A	160.00	178.7	5	252.6	120.0	10
30KPA168CA	168.00	187.7	5	272.4	111.2	10
30KPA168A	168.00	187.7	5	272.4	111.2	10
30KPA170CA	170.00	189.9	5	275.0	110.2	10
30KPA170A	170.00	189.9	5	275.0	110.2	10
30KPA180CA	180.00	201.1	5	290.4	104.3	10
30KPA180A	180.00	201.1	5	290.4	104.3	10
30KPA198CA	198.00	221.2	5	319.8	94.7	10
30KPA198A	198.00	221.2	5	319.8	94.7	10
30KPA216CA	216.00	241.3	5	348.6	86.9	10
30KPA216A	216.00	241.3	5	348.6	86.9	10
30KPA240CA	240.00	268.1	5	387.0	78.3	10
30KPA240A	240.00	268.1	5	387.0	78.3	10
30KPA258CA	258.00	288.2	5	416.4	72.8	10
30KPA258A	258.00	288.2	5	416.4	72.8	10
30KPA260CA	260.00	290.4	5	416.0	72.8	10
30KPA260A	260.00	290.4	5	416.0	72.8	10
30KPA270CA	270.00	301.6	5	436.2	69.5	10
30KPA270A	270.00	301.6	5	436.2	69.5	10
30KPA280CA	280.00	312.8	5	464.0	65.3	10
30KPA280A	280.00	312.8	5	464.0	65.3	10
30KPA288CA	288.00	321.7	5	469.9	64.5	10
30KPA288A	288.00	321.7	5	469.9	64.5	10
30KPA300CA	300.00	333.0	5	483.0	62.0	10
30KPA300A	300.00	333.0	5	483.0	62.0	10
30KPA350CA	350.00	389.0	5	564.0	53.0	10
30KPA350A	350.00	389.0	5	564.0	53.0	10
30KPA400CA	400.00	444.0	5	644.0	46.0	10
30KPA400A	400.00	444.0	5	644.0	46.0	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 $\pm 10\%$

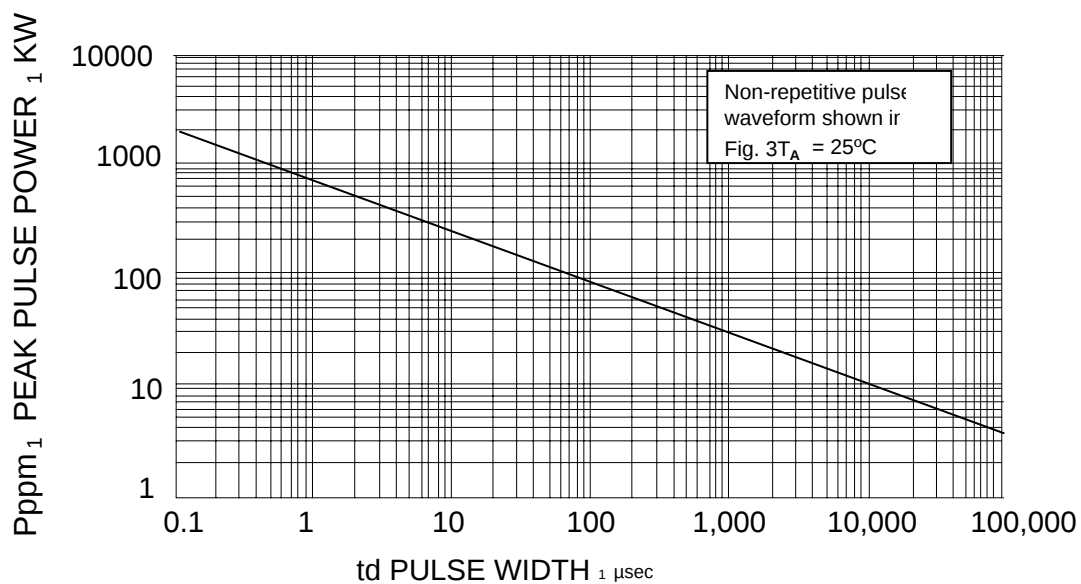


FIG. 1 PEAK PULSE POWER RATING

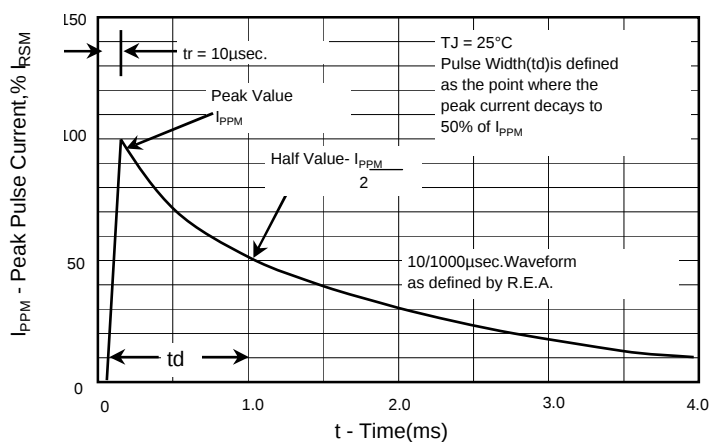
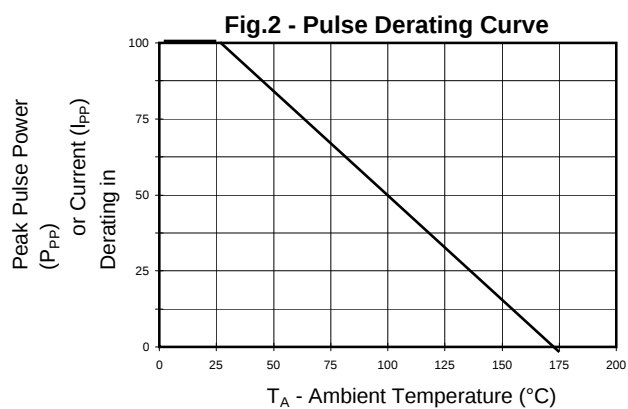


Fig.3 - Pulse Waveform