

Technical Data Data Sheet N0126, Rev. D **Green Products**

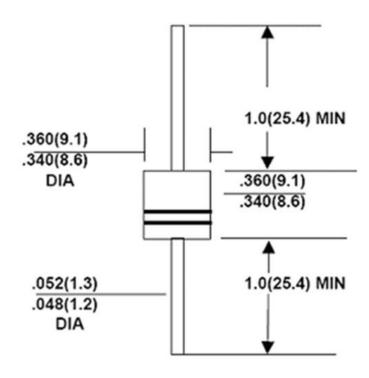
Features:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass Passivated Junction
- 20000W Peak Pulse Power Capability on 10/1000 µs waveform
- Voltage-30.0 to 288 Volts
- 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
- High temperature soldering guaranteed: 265 ℃/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension
- This is a Pb Free Device
- All SMC Parts are Traceable to the Wafer Lot
- Additional testing can be offered upon request

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: 2.1 grams(approx.)

Mechanical Dimensions: In Inches (mm)



P-600

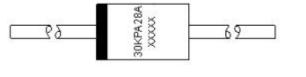


30KPA SERIES GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPERSSOR

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MARKING DIAGRAM

Where XXXXX is YYWWL



30KPA28A	= Part Name
YY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping		
30KPAxxxXX	P-600(Pb-Free)	300pcs / tape		
30KPAxxxXXTR	P-600(Pb-Free)	800pcs / reel		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10x1000µs Waveform(Note 1)	Рррм	30000	W
Peak Pulse Current on 10x1000µs Waveform(Note 1)	Іррм	See Table 1	А
Steady State Power Dissipation at T _L =75°C Lead Lengths .375", (9.5mm)(Note 2)	Pm(AV)	8.0	W
Peak Forward Surge Current, 8.3ms Sine- Wave Superimposed on Rated Load, (JEDEC Method)(Note 3)	IFSM	400.0	A
Operating Junction and Storage Temperature Range	Tj,Tstg	-55 to 175	°C

Notes: 1. Non-repetitive current pulse, per Fig. 3 and derated above TA = 25°C per Fig. 2.

2. Mounted on copper pad area of 0.8" \times 0.8" (20 \times 20mm)

3. 8.3ms single half sine wave, or equivalent square, duty cycle=4 pulses per minute maximum.

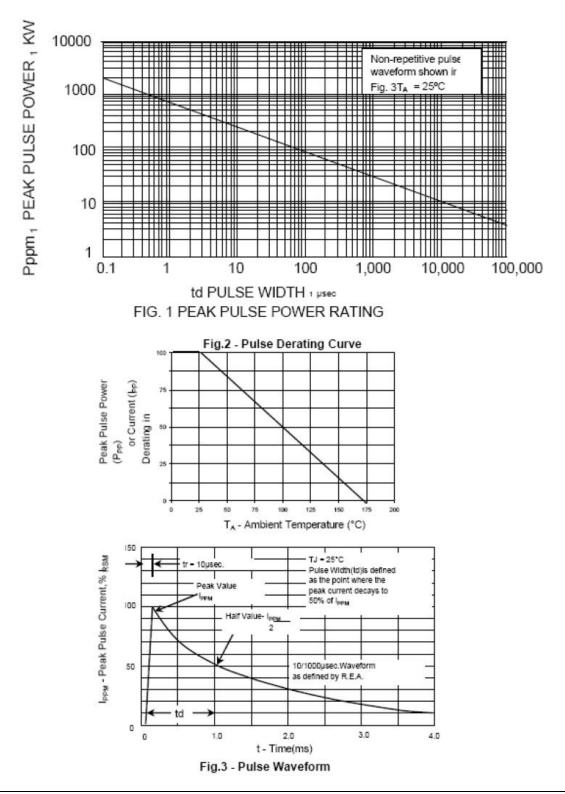
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Technical Data Data Sheet N0126, Rev. D 30000 Watt TVS

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

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

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