

1.5KE SERIES

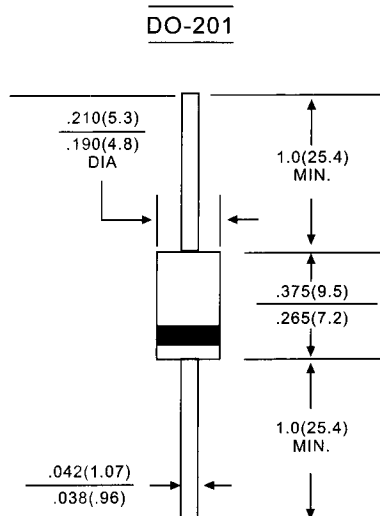
GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR VOLTAGE-6.8 to 440 Volts 1500 watt Peak Power / 5.0 Watt Steady State

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction in Molded Plastic package
- 1500W surge capability at 1ms
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1.0ps from 0 Volts to BV min.
- Typical ID less than 1 μ A above 10V
- High temperature soldering guaranteed: 250°C/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201 Molded plastic
 Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
 Polarity: Color band denoted cathode except Bipolar
 Mounting Position: Any
 Weight: 0.045 ounce, 1.2 gram



Dimension in inches and (millimeters)

DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types 1.5KE6.8 thru types 1.5KE440 (e.g. 1.5KE6.8C , 1.5KE440CA)
 Electrical characteristics apply in both directions

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Power Dissipation at TA=25°C, TP=1ms (Note 1)	PPPM	Minimum 1500	Watts
Steady State Power Dissipation at TL= 75°C Lead Lengths .375", (9.5mm) (NOTE 2)	PM(AV)	5.0	Watts
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)(NOTE 3)	IFSM	200	Amps
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 0.8×0.8" (20×20mm) per Fig. 5.
3. 8.3ms single half sine-wave , duty cycle = 4 pulses per minutes maximum.

1500 Watt Axial Lead TVS

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UNI-DIRECTIONAL PART NUMBER	REVERSE STAND-OFF VOLTAGE VRWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN.@ IT	BREAKDOWN VOLTAGE VBR (V) MAX.@ IT	TEST CURRENT IT (mA)	MAXIMUM CLAMPING VOLTAGE @Ipp Vc(V)	PEAK PULSE CURRENT Ipp (A)	REVERSE LEAKAGE @ VRWM IR (μA)
1.5KE6.8(C)A	5.80	6.45	7.14	10	10.5	144.8	1000
1.5KE7.5(C)A	6.40	7.13	7.88	10	11.3	134.5	500
1.5KE8.2(C)A	7.02	7.79	8.61	10	12.1	125.6	200
1.5KE9.1(C)A	7.78	8.65	9.50	1	13.4	113.4	50
1.5KE10(C)A	8.55	9.50	10.50	1	14.5	104.8	10
1.5KE11(C)A	9.40	10.50	11.60	1	15.6	97.4	5
1.5KE12(C)A	10.20	11.40	12.60	1	16.7	91.0	5
1.5KE13(C)A	11.10	12.40	13.70	1	18.2	83.5	5
1.5KE15(C)A	12.80	14.30	15.80	1	21.2	71.7	5
1.5KE16(C)A	13.60	15.20	16.80	1	22.5	67.6	5
1.5KE18(C)A	15.30	17.10	18.90	1	25.2	60.3	5
1.5KE20(C)A	17.10	19.00	21.00	1	27.7	54.9	5
1.5KE22(C)A	18.80	20.90	23.10	1	30.6	49.7	5
1.5KE24(C)A	20.50	22.80	25.20	1	33.2	45.8	5
1.5KE27(C)A	23.10	25.70	28.40	1	37.5	40.5	5
1.5KE30(C)A	25.60	28.50	31.50	1	41.4	36.7	5
1.5KE33(C)A	28.20	31.40	34.70	1	45.7	33.3	5
1.5KE36(C)A	30.80	34.20	37.80	1	49.9	30.5	5
1.5KE39(C)A	33.30	37.10	41.00	1	53.9	28.2	5
1.5KE43(C)A	36.80	40.90	45.20	1	59.3	25.6	5
1.5KE47(C)A	40.20	44.70	49.40	1	64.8	23.5	5
1.5KE51(C)A	43.60	48.50	53.60	1	70.1	21.7	5
1.5KE56(C)A	47.80	53.20	58.80	1	77.0	19.7	5
1.5KE62(C)A	53.00	58.90	65.10	1	85.0	17.9	5
1.5KE68(C)A	58.10	64.60	71.40	1	92.0	16.5	5
1.5KE75(C)A	64.10	71.30	78.80	1	103.0	14.8	5
1.5KE82(C)A	70.10	77.90	86.10	1	113.0	13.5	5
1.5KE91(C)A	77.80	86.50	95.50	1	125.0	12.2	5
1.5KE100(C)A	85.50	95.00	105.00	1	137.0	11.1	5
1.5KE110(C)A	94.00	105.00	116.00	1	152.0	10.0	5
1.5KE120(C)A	102.00	114.00	126.00	1	165.0	9.2	5
1.5KE130(C)A	111.00	124.00	137.00	1	179.0	8.5	5
1.5KE150(C)A	128.00	143.00	158.00	1	207.0	7.3	5
1.5KE160(C)A	136.00	152.00	168.00	1	219.0	6.9	5
1.5KE170(C)A	145.00	162.00	179.00	1	234.0	6.5	5
1.5KE180(C)A	154.00	171.00	189.00	1	246.0	6.2	5
1.5KE200(C)A	171.00	190.00	210.00	1	274.0	5.5	5
1.5KE220(C)A	185.00	209.00	231.00	1	328.0	4.6	5
1.5KE250(C)A	214.00	237.00	263.00	1	344.0	4.4	5
1.5KE300(C)A	256.00	285.00	315.00	1	414.0	3.7	5
1.5KE350(C)A	300.00	332.00	368.00	1	482.0	3.2	5
1.5KE400(C)A	342.00	380.00	420.00	1	548.0	2.8	5
1.5KE440(C)A	376.00	418.00	462.00	1	600.0	2.5	5

For Bidirectional type having Vrwm of 10 volts and less, the IR limit is double.

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