

1.5KE SERIES

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR PEAK PULSE POWER 1500 Watts

BREAK DOWN VOLTAGE

6.8 to 440 Volts

DO-201AE

Unit: inch(mm)



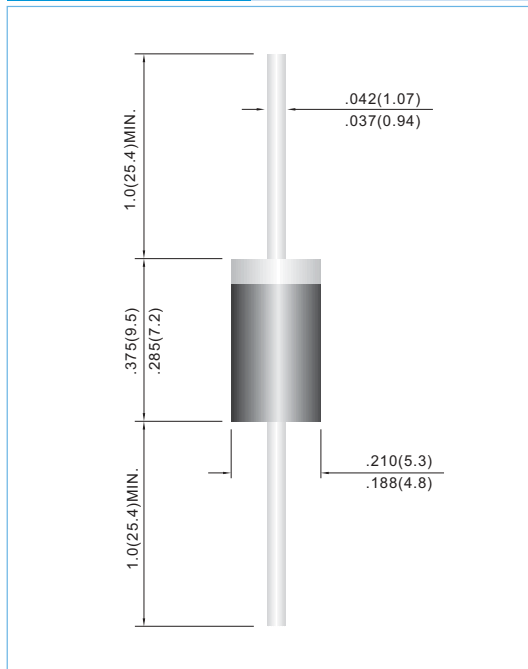
Recognized File # E210467

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction in DO-201AE package
- 1500W surge capability at 1.0ms
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1.0 ps from 0 volts to BV min
- Typical IR less than 1μA above 10V
- High temperature soldering guaranteed: 260°C/10 seconds/.375" (9.5mm) lead length/5lbs., (2.3kg) tension
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-201AE molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denoted cathode except Bipolar
- Mounting Position: Any
- Weight: 0.0395 ounce, 1.122 gram



DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types 1.5KE6.8 thru types 1.5KE440.
Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Units
Peak Power Dissipation at $T_A=25^\circ\text{C}$, $T_p=1\text{ms}$ (Note 1)	P_{PK}	1500	Watts
Typical Thermal Resistance Junction to Air Lead Lengths .375", (9.5mm) (Note 2)	$R_{\theta JA}$	30	$^\circ\text{C} / \text{W}$
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) (Note 3)	I_{FSM}	200	Amps
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65 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 Leaf area of $0.79\text{ in}^2(20\text{mm}^2)$.
3. 8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.



1.5KE SERIES

Part Number	Part Number	V _{RWM}	V _{BR} @ I _T			I _R @ V _{RWM}		V _C @ I _{PP}		Marking Code	
			Min.	Max.	I _T	UNI-	BI-	V	A	UNI-	BI-
UNI-	BI-	V	V	V	mA	μA	μA	V	A	UNI-	BI-
1500W Transient Voltage Suppressor											
1.5KE51A	1.5KE51CA	43.6	48.5	53.6	1	1	1	70.1	21.4	1.5KE51A	1.5KE51CA
1.5KE56	1.5KE56C	45.6	50.4	61.6	1	1	1	80.5	18.6	1.5KE56	1.5KE56C
1.5KE56A	1.5KE56CA	47.8	53.2	58.8	1	1	1	77	19.5	1.5KE56A	1.5KE56CA
1.5KE62	1.5KE62C	50.2	55.8	68.2	1	1	1	89	16.9	1.5KE62	1.5KE62C
1.5KE62A	1.5KE62CA	53	58.9	65.1	1	1	1	85	17.7	1.5KE62A	1.5KE62CA
1.5KE68	1.5KE68C	55.1	61.2	74.8	1	1	1	98	15.3	1.5KE68	1.5KE68C
1.5KE68A	1.5KE68CA	58.1	64.6	71.4	1	1	1	92	16.3	1.5KE68A	1.5KE68CA
1.5KE75	1.5KE75C	60.7	67.5	82.5	1	1	1	108	13.9	1.5KE75	1.5KE75C
1.5KE75A	1.5KE75CA	64.1	71.3	78.8	1	1	1	103	14.6	1.5KE75A	1.5KE75CA
1.5KE82	1.5KE82C	66.4	73.8	90.2	1	1	1	118	12.7	1.5KE82	1.5KE82C
1.5KE82A	1.5KE82CA	70.1	77.9	86.1	1	1	1	113	13.3	1.5KE82A	1.5KE82CA
1.5KE91	1.5KE91C	73.7	81.9	100	1	1	1	131	11.4	1.5KE91	1.5KE91C
1.5KE91A	1.5KE91CA	77.8	86.5	95.5	1	1	1	125	12	1.5KE91A	1.5KE91CA
1.5KE100	1.5KE100C	81	90	110	1	1	1	144	10.4	1.5KE100	1.5KE100C
1.5KE100A	1.5KE100CA	85.5	95	105	1	1	1	137	11	1.5KE100A	1.5KE100CA
1.5KE110	1.5KE110C	89.2	99	121	1	1	1	158	9.5	1.5KE110	1.5KE110C
1.5KE110A	1.5KE110CA	94	105	116	1	1	1	152	9.9	1.5KE110A	1.5KE110CA
1.5KE120	1.5KE120C	97.2	108	132	1	1	1	173	8.7	1.5KE120	1.5KE120C
1.5KE120A	1.5KE120CA	102	114	126	1	1	1	165	9.1	1.5KE120A	1.5KE120CA
1.5KE130	1.5KE130C	105	117	143	1	1	1	187	8	1.5KE130	1.5KE130C
1.5KE130A	1.5KE130CA	111	124	137	1	1	1	179	8.4	1.5KE130A	1.5KE130CA
1.5KE150	1.5KE150C	121	135	165	1	1	1	215	7	1.5KE150	1.5KE150C
1.5KE150A	1.5KE150CA	128	143	158	1	1	1	207	7.2	1.5KE150A	1.5KE150CA
1.5KE160	1.5KE160C	130	144	176	1	1	1	230	6.5	1.5KE160	1.5KE160C
1.5KE160A	1.5KE160CA	136	152	168	1	1	1	219	6.8	1.5KE160A	1.5KE160CA
1.5KE170	1.5KE170C	138	153	187	1	1	1	244	6.2	1.5KE170	1.5KE170C
1.5KE170A	1.5KE170CA	145	162	179	1	1	1	234	6.4	1.5KE170A	1.5KE170CA
1.5KE180	1.5KE180C	146	162	198	1	1	1	258	5.8	1.5KE180	1.5KE180C
1.5KE180A	1.5KE180CA	154	171	189	1	1	1	246	6.1	1.5KE180A	1.5KE180CA
1.5KE200	1.5KE200C	162	180	220	1	1	1	287	5.2	1.5KE200	1.5KE200C
1.5KE200A	1.5KE200CA	171	190	210	1	1	1	274	5.5	1.5KE200A	1.5KE200CA
1.5KE220	1.5KE220C	175	198	242	1	1	1	344	4.3	1.5KE220	1.5KE220C
1.5KE220A	1.5KE220CA	185	209	231	1	1	1	328	4.6	1.5KE220A	1.5KE220CA
1.5KE250	1.5KE250C	202	225	275	1	1	1	360	4.3	1.5KE250	1.5KE250C
1.5KE250A	1.5KE250CA	214	237	263	1	1	1	344	4.5	1.5KE250A	1.5KE250CA
1.5KE300	1.5KE300C	243	270	330	1	1	1	430	3.6	1.5KE300	1.5KE300C
1.5KE300A	1.5KE300CA	256	285	315	1	1	1	414	3.8	1.5KE300A	1.5KE300CA
1.5KE350	1.5KE350C	284	315	385	1	1	1	504	3.1	1.5KE350	1.5KE350C
1.5KE350A	1.5KE350CA	300	332	368	1	1	1	482	3.2	1.5KE350A	1.5KE350CA
1.5KE400	1.5KE400C	324	360	440	1	1	1	574	2.7	1.5KE400	1.5KE400C
1.5KE400A	1.5KE400CA	342	380	420	1	1	1	548	2.8	1.5KE400A	1.5KE400CA
1.5KE440	1.5KE440C	356	396	484	1	1	1	631	2.4	1.5KE440	1.5KE440C
1.5KE440A	1.5KE440CA	376	418	462	1	1	1	600	2.6	1.5KE440A	1.5KE440CA

