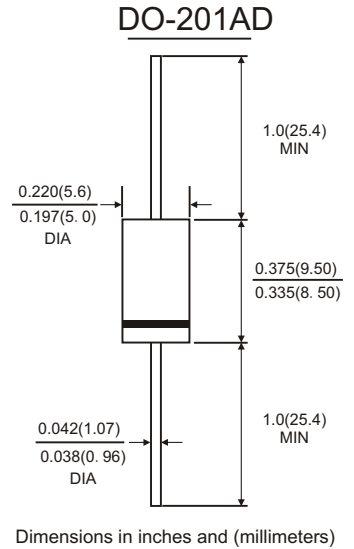


FEATURES

- 1500 Watts Pulse capability
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component inaccordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case:Molded plastic
- EPOXY:UL 94V-0 rate flame retardant
- Lead: MIL-STD-202E, Method 208 guaranteed
- Polarity: Color band denotes positive end (cathode) except bidirectional types
- Mounting position:Any
- Weight:1.2 grams



DEVICES FOR BIDIRECTIONAL APPLICATIONS

- For bi-directional use C or CA suffix (e.g. 1.5P4KE6.8C, 1.5KE400CA) Electrical characteristics apply in both directions

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25 °C ambient temperature unless otherwise specified)

	Symbols	Valuse	Units
Peak power dissipation at TA=25 °C, TP=1ms(Note 1.)	PPPM	Min. 1500	Watts
Steady state power dissipation at TJ=75 °C lead length 0.375"(9.5mm) (Note 2.)	PM	5. 0	Watts
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method) (Note 3.)	IFSM	400	Amps
Maximum instantaneous forward voltage at 50.0A for unidirectional only (Note 4.)	VF	3. 5/5. 0	Volts
Operating junction and storage temperature range	TJ, TSTG	-55 to +175	°C

Note: 1.Non repetitive current pulse and derated above TA=25°C

2.Mounted on copper pads area of 0. 8X0. 8"(40X40mm)

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

4.VF=3.5 Volts max. for devices of V(BR)≤200V, and VF=5.0Volts max. for devices of V(BR)>200V

TYPE		Breakdown Voltage V(BR) (Volts)		Test Current IT (mA)	Reverse Stand off Voltage VWM (Volts)	Maximum Reverse Leadage At VWM ID (uA)	Maximum Peak Pulse Current Ippm (Amps)	Maximum Clamping Voltage At Ippm VC (Volts)	Maximum Temperature Coefficient of V(BR) % / °C
		MIN	MAX						
1N6267	1.5KE6.8	6.12	7.48	10.0	5.50	1,000.0	145.0	10.8	0.057
1N6267A	1.5KE6.8A	6.45	7.14	10.0	5.80	1,000.0	150.0	10.5	0.057
1N6268	1.5KE7.5	6.75	8.25	10.0	6.05	500.0	134.0	11.7	0.061
1N6268A	1.5KE7.5A	7.13	7.88	10.0	6.40	500.0	139.0	11.3	0.061
1N6269	1.5KE8.2	7.38	9.02	10.0	6.63	200.0	126.0	12.5	0.065
1N6269A	1.5KE8.2A	7.79	8.61	10.0	7.02	200.0	130.0	12.1	0.065
1N6270	1.5KE9.1	8.19	10.0	1.0	7.37	50.0	114.0	13.8	0.068
1N6270A	1.5KE9.1A	8.65	9.55	1.0	7.78	50.0	117.0	13.4	0.068
1N6271	1.5KE10	9.00	11.0	1.0	8.10	10.0	105.0	15.0	0.073
1N6271A	1.5KE10A	9.50	10.5	1.0	8.55	10.0	108.0	14.5	0.073
1N6272	1.5KE11	9.90	12.1	1.0	8.92	5.0	97.0	16.2	0.075
1N6272A	1.5KE11A	10.5	11.6	1.0	9.40	5.0	100.0	15.6	0.075
1N6273	1.5KE12	10.8	13.2	1.0	9.72	5.0	91.0	17.3	0.078
1N6273A	1.5KE12A	11.4	12.6	1.0	10.2	5.0	94.0	16.7	0.078
1N6274	1.5KE13	11.7	14.3	1.0	10.5	5.0	82.0	19.0	0.081
1N6274A	1.5KE13A	12.4	13.7	1.0	11.1	5.0	86.0	18.2	0.081
1N6275	1.5KE15	13.5	16.5	1.0	12.1	5.0	71.0	22.0	0.084
1N6275A	1.5KE15A	14.3	15.8	1.0	12.8	5.0	74.0	21.2	0.084
1N6276	1.5KE16	14.4	17.6	1.0	12.9	5.0	67.0	23.5	0.086
1N6276A	1.5KE16A	15.2	16.8	1.0	13.6	5.0	70.0	22.5	0.086
1N6277	1.5KE18	16.2	19.8	1.0	14.5	5.0	59.0	26.5	0.088
1N6277A	1.5KE18A	17.1	18.9	1.0	15.3	5.0	60.0	25.2	0.088
1N6278	1.5KE20	18.0	22.0	1.0	16.2	5.0	54.0	29.1	0.090
1N6278A	1.5KE20A	19.0	21.0	1.0	17.1	5.0	56.0	27.7	0.090
1N6279	1.5KE22	19.8	24.2	1.0	17.8	5.0	49.0	31.9	0.092
1N6279A	1.5KE22A	20.9	23.1	1.0	18.8	5.0	51.0	30.6	0.092
1N6280	1.5KE24	21.6	26.4	1.0	19.4	5.0	45.0	34.7	0.094
1N6280A	1.5KE24A	22.8	25.2	1.0	20.5	5.0	47.0	33.2	0.094
1N6281	1.5KE27	24.3	29.7	1.0	21.8	5.0	40.0	39.1	0.096
1N6281A	1.5KE27A	25.7	28.4	1.0	23.1	5.0	42.0	37.5	0.096
1N6282	1.5KE30	27.0	33.0	1.0	24.3	5.0	36.0	43.5	0.097
1N6282A	1.5KE30A	28.5	31.5	1.0	25.6	5.0	38.0	41.4	0.097
1N6283	1.5KE33	29.7	36.3	1.0	26.8	5.0	33.0	47.7	0.098
1N6283A	1.5KE33A	31.4	34.7	1.0	28.2	5.0	34.0	45.7	0.098
1N6284	1.5KE36	32.4	39.6	1.0	29.1	5.0	30.0	52.0	0.099
1N6284A	1.5KE36A	34.2	37.8	1.0	30.8	5.0	31.0	49.9	0.099
1N6285	1.5KE39	35.1	42.9	1.0	31.6	5.0	27.0	56.4	0.100
1N6285A	1.5KE39A	37.1	41.0	1.0	33.3	5.0	29.0	53.9	0.100
1N6286	1.5KE43	38.7	47.3	1.0	34.8	5.0	25.0	61.9	0.101
1N6286A	1.5KE43A	40.9	45.2	1.0	36.8	5.0	26.0	59.3	0.101
1N6287	1.5KE47	42.3	51.7	1.0	38.1	5.0	23.0	67.8	0.101
1N6287A	1.5KE47A	44.7	49.4	1.0	40.2	5.0	24.0	64.8	0.101
1N6288	1.5KE51	45.9	56.1	1.0	41.3	5.0	21.0	73.5	0.102
1N6288A	1.5KE51A	48.5	53.6	1.0	43.6	5.0	22.0	70.1	0.102
1N6289	1.5KE56	50.4	61.6	1.0	45.4	5.0	19.0	80.5	0.103
1N6289A	1.5KE56A	53.2	58.8	1.0	47.8	5.0	20.0	77.0	0.103

TYPE		Breakdown Voltage V _(BR) (Volts)		Test Current I _T (mA)	Reverse Stand off Voltage V _{WM} (Volts)	Maximum Reverse Leakage At V _{WM} I _D (uA)	Maximum Peak Pulse Current I _{ppm} (Amps)	Maximum Clamping Voltage At I _{ppm} V _C (Volts)	Maximum Temperature Coefficient of V _(BR) % / °C
		MIN	MAX						
1N6290	1.5KE62	55.8	68.2	1.0	50.2	5.0	17.0	89.0	0.104
1N6290A	1.5KE62A	58.9	65.1	1.0	53.0	5.0	18.0	85.0	0.104
1N6291	1.5KE68	61.2	74.8	1.0	55.1	5.0	16.0	98.0	0.104
1N6291A	1.5KE68A	64.6	71.4	1.0	58.1	5.0	17.0	92.0	0.104
1N6292	1.5KE75	67.5	82.5	1.0	60.7	5.0	14.0	108.0	0.105
1N6292A	1.5KE75A	71.3	78.8	1.0	64.1	5.0	15.0	103.0	0.105
1N6293	1.5KE82	73.8	90.2	1.0	66.4	5.0	13.0	118.0	0.105
1N6293A	1.5KE82A	77.9	86.1	1.0	70.1	5.0	13.9	113.0	0.105
1N6294	1.5KE91	81.9	100.0	1.0	73.7	5.0	12.0	131.0	0.106
1N6294A	1.5KE91A	86.5	95.5	1.0	77.8	5.0	12.6	125.0	0.106
1N6295	1.5KE100	90.0	110	1.0	81.0	5.0	10.9	144.0	0.106
1N6295A	1.5KE100A	95.0	105	1.0	85.5	5.0	11.4	137.0	0.106
1N6296	1.5KE110	99.0	121	1.0	89.2	5.0	9.9	158.0	0.107
1N6296A	1.5KE110A	105	116	1.0	94.0	5.0	10.3	152.0	0.107
1N6297	1.5KE120	108	132	1.0	97.2	5.0	9.1	173.0	0.107
1N6297A	1.5KE120A	114	126	1.0	102	5.0	9.5	165.0	0.107
1N6298	1.5KE130	117	143	1.0	106	5.0	8.4	187.0	0.107
1N6298A	1.5KE130A	124	137	1.0	111	5.0	8.7	179.0	0.107
1N6299	1.5KE150	135	165	1.0	121	5.0	7.3	215.0	0.108
1N6299A	1.5KE150A	143	158	1.0	128	5.0	7.6	207.0	0.108
1N6300	1.5KE160	144	176	1.0	130	5.0	6.8	230.0	0.108
1N6300A	1.5KE160A	152	168	1.0	136	5.0	7.1	219.0	0.108
1N6301	1.5KE170	153	187	1.0	138	5.0	6.4	244.0	0.108
1N6301A	1.5KE170A	162	179	1.0	145	5.0	6.7	234.0	0.108
1N6302	1.5KE180	162	198	1.0	146	5.0	6.1	258.0	0.108
1N6302A	1.5KE180A	171	189	1.0	154	5.0	6.4	246.0	0.108
1N6303	1.5KE200	180	220	1.0	162	5.0	5.4	287.0	0.108
1N6303A	1.5KE200A	190	210	1.0	171	5.0	5.7	274.0	0.108
	1.5KE220	198	242	1.0	175	5.0	4.5	344.0	0.108
	1.5KE220A	209	231	1.0	185	5.0	4.8	328.0	0.108
	1.5KE250	225	275	1.0	202	5.0	4.3	360.0	0.110
	1.5KE250A	237	263	1.0	214	5.0	4.5	344.0	0.110
	1.5KE300	270	330	1.0	243	5.0	3.6	430.0	0.110
	1.5KE300A	285	315	1.0	256	5.0	3.8	414.0	0.110
	1.5KE350	315	385	1.0	284	5.0	3.1	504.0	0.110
	1.5KE350A	333	368	1.0	300	5.0	3.2	482.0	0.110
	1.5KE400	360	440	1.0	324	5.0	2.7	574.0	0.110
	1.5KE400A	380	420	1.0	342	5.0	2.8	548.0	0.110
	1.5KE440	396	484	1.0	356	5.0	2.4	631.0	0.110
	1.5KE440A	418	462	1.0	376	5.0	2.6	602.0	0.110

Notes: 1.V_(BR) measured after I_T applied for 300μS, I_T=square wave pulse or equivalent.

2. For bidirectional types having V_{WM} of 10 Volts and less, The I_D limit is doubled.

FIG. 1-PEAK PULSE POWER CURVE

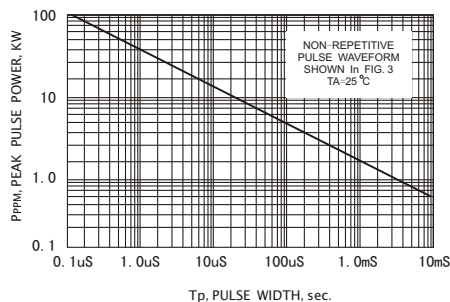


FIG. 2-PULSE DERATING CURVE

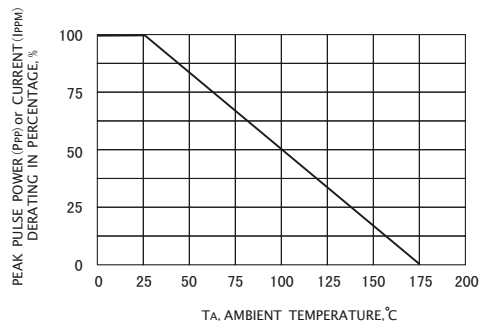


FIG. 3-PULSE WAVEFORM

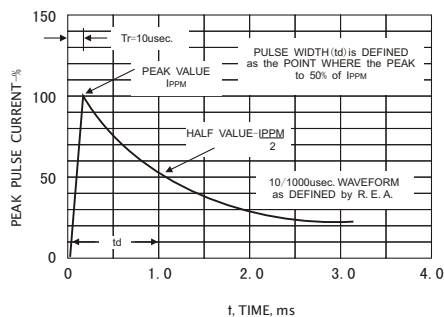


FIG. 4-STEADY STATE POWER DERATING CURVE

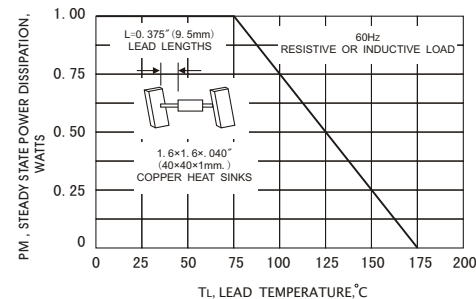


FIG. 5-TYPICAL JUNCTION CAPACITANCE UNIDIRECTIONAL

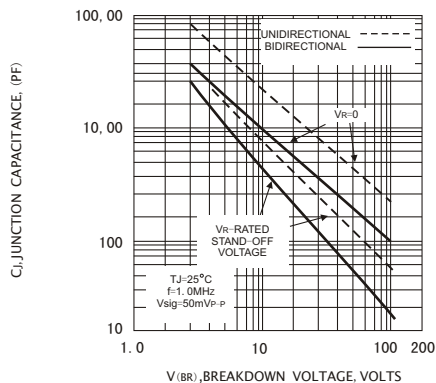


FIG. 6-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT UNIDIRECTIONAL

