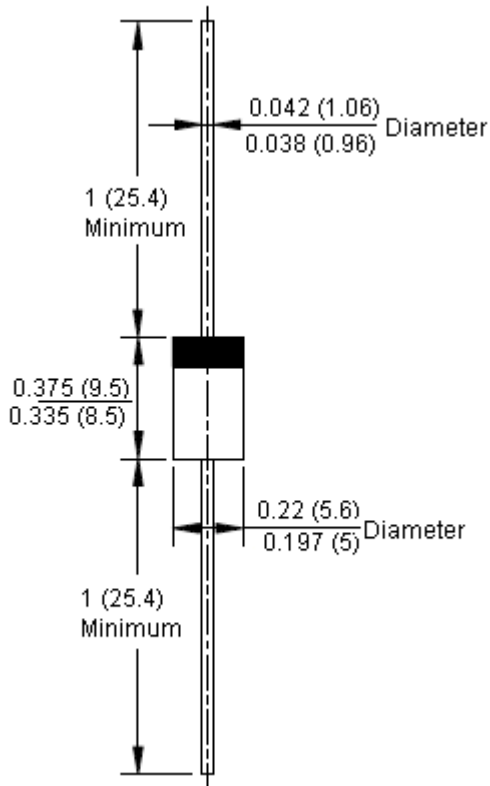


Unidirectional and Bidirectional

DO-201



Dimensions : Inches (Millimetres)

Features:

- Glass passivate chip
- Low leakage
- Uni and bidirectional unit
- Excellent clamping capability
- Plastic material has UL recognition 94V-0
- Fast response time

Mechanical Data:

Case : Moulded Plastic
Weight : 1.2 g

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60 Hz, resistive or inductive load
For capacitive load, derate current by 20%

Characteristics	Symbol	Value	Unit
Peak Power Dissipation at $T_A = 25^\circ\text{C}$ TP = 1 ms	P_{PK}	Minimum 1,500	Watts
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	200	Amperes
Steady State Power Dissipation at $T_L = 75^\circ\text{C}$ Lead Lengths 0.375 inches (9.5 mm)	$P_{M(AV)}$	5	Watts
Operating Temperature Range	T_J	-55 to + 150	°C
Storage Temperature Range	T_{STG}	-55 to + 175	°C

Unidirectional and Bidirectional

Part Number	Part Number	Reverse Standoff Voltage	Breakdown Voltage BV Volts @ It			Maximum Reverse Leakage @ VR	Maximum Clamping Voltage @ Ipp	Maximum Peak Pulse Current	Maximum Voltage Temperature Variation of Bv
(UNI)	(BI)	VR(V)	Minimum (V)	Maximum (V)	It (mA)	IR (μA)	Vc (V)	Ipp (A)	mV/°C
1.5KE6.8A	1.5KE6.8CA	5.8	6.45	7.14	10	1000	10.5	143	0.057
1.5KE7.5A	1.5KE7.5CA	6.4	7.13	7.88	10	500	11.3	132	0.061
1.5KE8.2A	1.5KE8.2CA	7.02	7.79	8.61	10	200	12.1	124	0.065
1.5KE10A	1.5KE10CA	8.55	9.5	10.5	1	10	14.5	103	0.073
1.5KE12A	1.5KE12CA	10.2	11.4	12.6	1	5	16.7	90	0.078
1.5KE13A	1.5KE13CA	11.1	12.4	13.7	1	5	18.2	82	0.081
1.5KE15A	1.5KE15CA	12.8	14.3	15.8	1	5	21.2	71	0.084
1.5KE16A	1.5KE16CA	13.6	15.2	16.8	1	5	22.5	67	0.086
1.5KE18A	1.5KE18CA	15.3	17.1	18.9	1	5	25.2	59.5	0.088
1.5KE20A	1.5KE20CA	17.1	19	21	1	5	27.7	54	0.09
1.5KE22A	1.5KE22CA	18.8	20.9	23.1	1	5	30.6	49	0.092
1.5KE24A	1.5KE24CA	20.5	22.8	25.2	1	5	33.2	45	0.094
1.5KE27A	1.5KE27CA	23.1	25.7	28.4	1	5	37.5	40	0.096
1.5KE30A	1.5KE30CA	25.6	28.5	31.5	1	5	41.4	36	0.097
1.5KE33A	1.5KE33CA	28.2	31.4	34.7	1	5	45.7	33	0.098
1.5KE36A	1.5KE36CA	30.8	34.2	37.8	1	5	49.9	30	0.099
1.5KE39A	1.5KE39CA	33.3	37.1	41	1	5	53.9	28	0.1
1.5KE43A	1.5KE43CA	36.8	40.9	45.2	1	5	59.3	25.3	0.101
1.5KE47A	1.5KE47CA	40.2	44.7	49.4	1	5	64.8	23.2	0.101
1.5KE51A	1.5KE51CA	43.6	48.5	53.6	1	5	70.1	21.4	0.102
1.5KE56A	1.5KE56CA	47.8	53.2	58.8	1	5	77	19.5	0.103
1.5KE62A	1.5KE62CA	53	58.9	65.1	1	5	85	17.7	0.104
1.5KE68A	1.5KE68CA	58.1	64.6	71.4	1	5	92	16.3	0.104
1.5KE75A	1.5KE75CA	64.7	71.3	78.8	1	5	103	14.6	0.105
1.5KE91A	1.5KE91CA	77.8	86.5	95.5	1	5	125	12	0.106
1.5KE100A	1.5KE100CA	85.5	95	105	1	5	137	11	0.106

Notes : Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device.

1. For bidirectional devices having VR of 10volts and under, the IR limit is doubled

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.