

Diodes

Unidirectional and Bidirectional



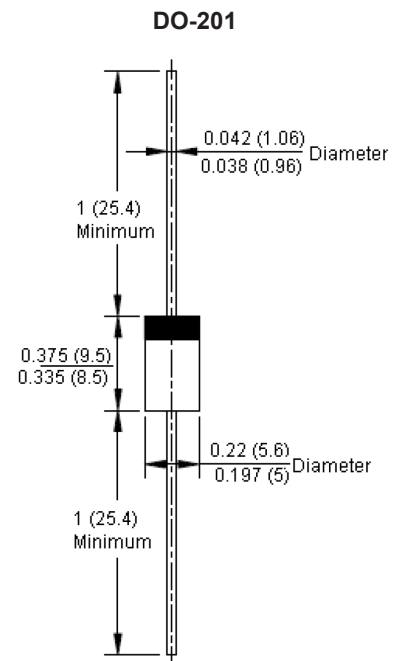
Features

- 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



Dimensions : Inches (Millimetres)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load, derate current by 20%

Characteristics	Symbol	Value	Unit
Peak Power Dissipation at TA = 25°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°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	

Part Number	Part Number	Reverse Standoff Voltage	Breakdown Voltage BV Volts @ I _t			Maximum Reverse Leakage @ VR	Maximum Clamping Voltage @ I _{pp}	Maximum Peak Pulse Current	Maximum Voltage Temperature Variation of Bv
			Min. (V)	Max. (V)	I _t (mA)				
(UNI)	(BI)	VR(V)	Min. (V)	Max. (V)	I _t (mA)	IR (µA)	Vc (V)	I _{pp} (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

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			Min. (V)	Max. (V)	It (mA)				
(UNI)	(BI)	VR(V)				IR (µA)	Vc (V)	Ipp (A)	mV/°C
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

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