

FEATURES

- ✧ Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- ✧ Glass passivated junction.
- ✧ 1,500W peak pulse power capability with a 10/1000 μ s waveform, repetition rate (duty cycle): 0.05%.
- ✧ Excellent clamping capability.
- ✧ Low incremental surge resistance.
- ✧ Fast response time: typically less than 5.0ns from 0 volt to V_{BR} min.
- ✧ Ideal for data line applications.
- ✧ High temperature soldering guaranteed: 265 $^{\circ}$ C/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension.



DO-201

MECHANICAL DATA

- ✧ Case: JEDEC DO-201 Molded Plastic.
- ✧ Terminals: Axial leads, solderable per MIL-STD-750, Method 2026.
- ✧ Polarity: Color band denotes cathode.
- ✧ Mounting Position: Any.
- ✧ Weight: 0.045 ounce, 1.2 grams.

MAXIMUM RATINGS AND CHARACTERISTICS

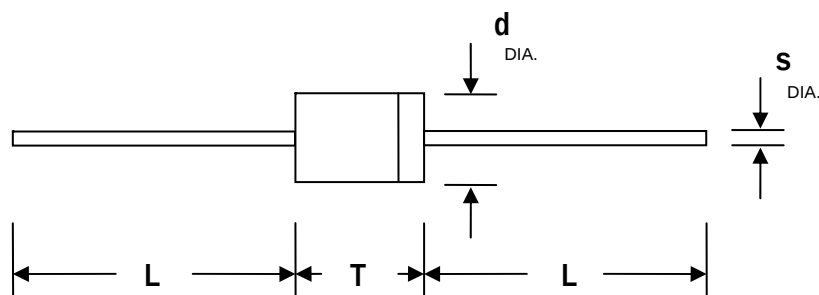
Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power Dissipation on 10/1000 μ s waveform. (Note 1, Fig. 1)	P_{PPM}	Minimum 1,500	Watts
Peak Pulse Current on 10/1000 μ s waveform. (Note 1, Fig. 3)	I_{PPM}	See Table	Amps
Steady State Power Dissipation at $T_L = 75^{\circ}$ C, Lead length .375" (9.5mm). (Fig. 5)	$P_{M(AV)}$	6.5	Watts
Operating junction and Storage Temperature Range.	T_J, T_{STG}	-55 to +175	$^{\circ}$ C

Note: Non-repetitive current pulse, per Fig. 3 and derated above $T_A = 25^{\circ}$ C per Fig. 2.



PACKAGE DIMENSIONS



D0-201

Item	Millimeters		Inches	
	Min.	Max.	Min.	Max.
L	25.40	-	1.000	-
T	7.20	9.50	0.285	0.375
d	4.80	5.30	0.190	0.210
s	0.96	1.07	0.038	0.042

SPECIFICATIONS

Part Number	Reverse Stand-Off Voltage	Breakdown Voltage Min.@I _T	Breakdown Voltage Max.@I _T	Test Current	Maximum Reverse Leakage @V _{RWM}	Maximum Peak Pulse Current Per fig.3	Maximum Clamping Voltage @I _{PP}	Maximum Junction Capacitance @0V	Working Inverse Blocking Voltage	Working Blocking Leakage Current	Peak Inverse Blocking Voltage
	V _{RWM} (V)	V _{BR} MIN.(V)	V _{BR} MAX.(V)	I _T (mA)	I _R (μA)	I _{PP} (A)	V _C (V)	(pF)	V _{WIB} (V)	I _{IB} (mA)	V _{PIB} (V)
LCE6.5A	6.5	7.22	7.98	10	1000	100	11.2	100	75	1.0	100
LCE7.0A	7.0	7.78	8.60	10	500	100	12.0	100	75	1.0	100
LCE7.5A	7.5	8.33	9.21	10	250	100	12.9	100	75	1.0	100
LCE8.0A	8.0	8.89	9.83	1	100	100	13.6	100	75	1.0	100
LCE8.5A	8.5	9.44	10.40	1	50	100	14.4	100	75	1.0	100
LCE9.0A	9.0	10.00	11.10	1	10	97	15.4	100	75	1.0	100
LCE10A	10.0	11.10	12.30	1	5	88	17.0	100	75	1.0	100
LCE11A	11.0	12.20	13.50	1	1	82	18.2	100	75	1.0	100
LCE12A	12.0	13.30	14.70	1	1	75	19.9	100	75	1.0	100
LCE13A	13.0	14.40	15.90	1	1	70	21.5	100	75	1.0	100
LCE14A	14.0	15.60	17.20	1	1	65	23.2	100	75	1.0	100
LCE15A	15.0	16.70	18.50	1	1	61	24.4	100	75	1.0	100
LCE16A	16.0	17.80	19.70	1	1	57	26.0	100	75	1.0	100
LCE17A	17.0	18.90	20.90	1	1	54	27.6	100	75	1.0	100
LCE18A	18.0	20.00	22.10	1	1	51	29.2	100	75	1.0	100
LCE20A	20.0	22.20	24.50	1	1	46	32.4	100	75	1.0	100
LCE22A	22.0	24.40	26.90	1	1	42	35.5	100	75	1.0	100
LCE24A	24.0	26.70	29.50	1	1	39	38.9	100	75	1.0	100
LCE26A	26.0	28.90	31.90	1	1	36	42.1	100	75	1.0	100
LCE28A	28.0	31.10	34.40	1	1	33	45.5	100	75	1.0	100

RATING AND CHARACTERISTIC CURVES (T_A: 25°C UNLESS OTHERWISE SPECIFIED)

Figure 1 - Peak Pulse Power Rating Curve

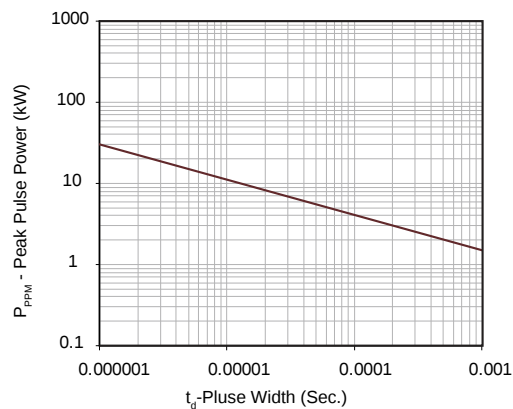


Figure 2 - Pulse Derating Curve

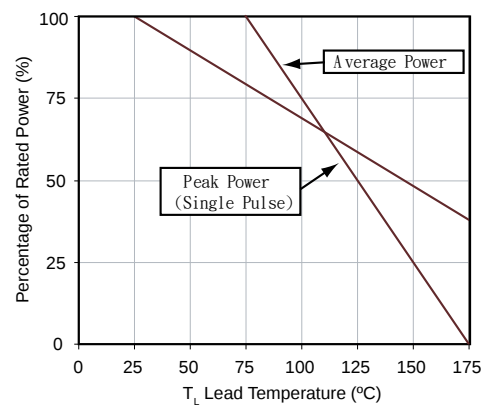


Figure 3 - Pulse Waveform

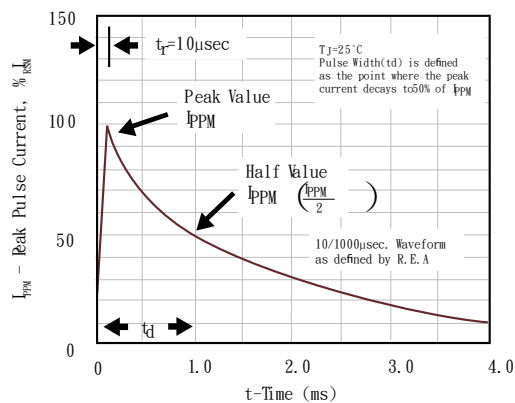


Figure 4 - AC Line Protection Application

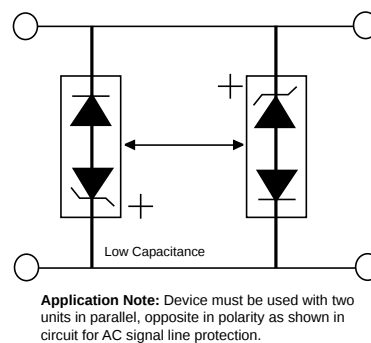


Figure 5 - Steady State Power Dissipation Derating Curve

