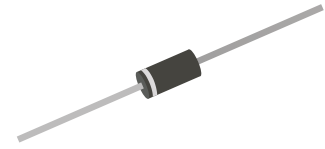


1.5KE-G Series

Breakdown Voltage: 6.8 to 600 Volts

Peak Pulse Power: 1500 Watts

RoHS Device



Features

- Glass passivated chip.
- 1500W peak pulse power capability with a 10/1000 μ s waveform, repetitive rate (duty cycle):0.01%
- Low leakage.
- Uni and Bidirectional unit.
- Excellent clamping capability.
- Very fast response time.
- UL recognized file # E349157  Range: 1.5KE6.8(C)A thru. 1.5KE120(C)A

Mechanical Data

- Case: Molded plastic DO-201
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-202, method 208 guaranteed.
- Polarity: Color band denotes cathode end except Bipolar.
- Mounting position: Any
- Weight: 0.844 gram (approx.)



Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak power dissipation with a 10/1000 μ s waveform (Note 1)	PPP	1500	W
Peak pulse current with a 10/1000 μ s waveform (Note 1)	I _{PP}	See Next Table	A
Power dissipation on infinite heatsink at T _L =75°C	P _D	6.5	W
Peak forward surge current, 8.3ms single half sine-wave unidirectional only (JEDEC method) (Note 2)	I _{FSM}	200	A
Maximum instantaneous forward voltage at 100 A for unidirectional only (Note 3)	V _F	3.5/5.0	V
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150	°C

NTOES:

- (1) Non-repetitive current pulse, per fig.5 and derated above TA=25°C per fig.1
- (2) Measured on 8.3ms single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum
- (3) V_F<3.5V for devices of V_{BR}<200V and V_F<5.0V for devices of V_{BR}>201V

Company reserves the right to improve product design , functions and reliability without notice.

RATING AND CHARACTERISTIC CURVES (1.5KE6.8-G Thru. 1.5KE600-G)

Fig.1 - Pulse Derating Curve



Fig.2 - Max. Non-repetitive Surge Current



Fig.3 - Steady State Power Derating Curve



Fig.4 - Peak Pulse Power Rating Curve



Fig.5 - Pulse Waveform



Fig.6 - Typical Junction Capacitance



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1500W Transient Voltage Suppressor

Electrical Characteristics (1.5KE6.8-G Thru. 1.5KE600-G)

Part No.	Breakdown voltage VBR @ IT			Maximum Reverse Leakage @VRWM IR (uA)	Working Peak Reverse Voltage VRWM (V)	Maximum Reverse Surge Current IPP (A)	Maximum Clamping Voltage @IPP Vc (V)	Marking Code	
	Min. (V)	Max. (V)	IT (mA)					UNI	BI
1.5KE6.8(C)A-G	6.46	7.14	10	1000	5.8	142.86	10.5	1.5KE6.8A	1.5KE6.8CA
1.5KE7.5(C)A-G	7.13	7.88	10	500	6.4	132.74	11.3	1.5KE7.5A	1.5KE7.5CA
1.5KE8.2(C)A-G	7.79	8.61	10	200	7.0	123.97	12.1	1.5KE8.2A	1.5KE8.2CA
1.5KE9.1(C)A-G	8.65	9.56	1.0	50	7.8	111.94	13.4	1.5KE9.1A	1.5KE9.1CA
1.5KE10(C)A-G	9.50	10.50	1.0	10	8.6	103.45	14.5	1.5KE10A	1.5KE10CA
1.5KE11(C)A-G	10.45	11.55	1.0	5.0	9.4	96.15	15.6	1.5KE11A	1.5KE11CA
1.5KE12(C)A-G	11.40	12.60	1.0	5.0	10.2	89.82	16.7	1.5KE12A	1.5KE12CA
1.5KE13(C)A-G	12.35	13.65	1.0	1.0	11.1	82.42	18.2	1.5KE13A	1.5KE13CA
1.5KE15(C)A-G	14.25	15.75	1.0	1.0	12.8	70.75	21.2	1.5KE15A	1.5KE15CA
1.5KE16(C)A-G	15.20	16.80	1.0	1.0	13.6	66.67	22.5	1.5KE16A	1.5KE16CA
1.5KE18(C)A-G	17.10	18.90	1.0	1.0	15.3	59.52	25.2	1.5KE18A	1.5KE18CA
1.5KE20(C)A-G	19.00	21.00	1.0	1.0	17.1	54.15	27.7	1.5KE20A	1.5KE20CA
1.5KE22(C)A-G	20.90	23.10	1.0	1.0	18.8	49.02	30.6	1.5KE22A	1.5KE22CA
1.5KE24(C)A-G	22.80	25.20	1.0	1.0	20.5	45.18	33.2	1.5KE24A	1.5KE24CA
1.5KE27(C)A-G	25.65	28.35	1.0	1.0	23.1	40.00	37.5	1.5KE27A	1.5KE27CA
1.5KE30(C)A-G	28.50	31.50	1.0	1.0	25.6	36.23	41.4	1.5KE30A	1.5KE30CA
1.5KE33(C)A-G	31.35	34.65	1.0	1.0	28.2	32.82	45.7	1.5KE33A	1.5KE33CA
1.5KE36(C)A-G	34.20	37.80	1.0	1.0	30.8	30.06	49.9	1.5KE36A	1.5KE36CA
1.5KE39(C)A-G	37.05	40.95	1.0	1.0	33.3	27.83	53.9	1.5KE39A	1.5KE39CA
1.5KE43(C)A-G	40.85	45.15	1.0	1.0	36.8	25.30	59.3	1.5KE43A	1.5KE43CA
1.5KE47(C)A-G	44.65	49.35	1.0	1.0	40.2	23.15	64.8	1.5KE47A	1.5KE47CA
1.5KE51(C)A-G	48.45	53.55	1.0	1.0	43.6	21.40	70.1	1.5KE51A	1.5KE51CA
1.5KE56(C)A-G	53.20	58.80	1.0	1.0	47.8	19.48	77.0	1.5KE56A	1.5KE56CA
1.5KE62(C)A-G	58.90	65.10	1.0	1.0	53.0	17.65	85.0	1.5KE62A	1.5KE62CA
1.5KE68(C)A-G	64.60	71.40	1.0	1.0	58.1	16.30	92.0	1.5KE68A	1.5KE68CA
1.5KE75(C)A-G	71.25	78.75	1.0	1.0	64.1	14.56	103.0	1.5KE75A	1.5KE75CA
1.5KE82(C)A-G	77.90	86.10	1.0	1.0	70.1	13.27	113.0	1.5KE82A	1.5KE82CA
1.5KE91(C)A-G	86.45	95.55	1.0	1.0	77.8	12.00	125.0	1.5KE91A	1.5KE91CA
1.5KE100(C)A-G	95.00	105.00	1.0	1.0	85.5	10.95	137.0	1.5KE100A	1.5KE100CA
1.5KE110(C)A-G	104.50	115.50	1.0	1.0	94.0	9.87	152.0	1.5KE110A	1.5KE110CA
1.5KE120(C)A-G	114.00	126.00	1.0	1.0	102.0	9.09	165.0	1.5KE120A	1.5KE120CA
1.5KE130(C)A-G	123.50	136.50	1.0	1.0	111.0	8.38	179.0	1.5KE130A	1.5KE130CA
1.5KE150(C)A-G	142.50	157.50	1.0	1.0	128.0	7.25	207.0	1.5KE150A	1.5KE150CA
1.5KE160(C)A-G	152.00	168.00	1.0	1.0	136.0	6.85	219.0	1.5KE160A	1.5KE160CA
1.5KE170(C)A-G	161.50	178.50	1.0	1.0	145.0	6.41	234.0	1.5KE170A	1.5KE170CA
1.5KE180(C)A-G	171.00	189.00	1.0	1.0	154.0	6.10	246.0	1.5KE180A	1.5KE180CA
1.5KE200(C)A-G	190.00	210.00	1.0	1.0	171.0	5.47	274.0	1.5KE200A	1.5KE200CA
1.5KE220(C)A-G	209.00	231.00	1.0	1.0	185.0	4.57	328.0	1.5KE220A	1.5KE220CA
1.5KE250(C)A-G	237.50	262.50	1.0	1.0	214.0	4.36	344.0	1.5KE250A	1.5KE250CA
1.5KE300(C)A-G	285.00	315.00	1.0	1.0	256.0	3.62	414.0	1.5KE300A	1.5KE300CA
1.5KE350(C)A-G	332.50	367.50	1.0	1.0	299.3	3.11	482.0	1.5KE350A	1.5KE350CA
1.5KE380(C)A-G	361.00	399.00	1.0	1.0	324.9	2.86	524.4	1.5KE380A	1.5KE380CA
1.5KE400(C)A-G	380.00	420.00	1.0	1.0	342.0	2.72	548.0	1.5KE400A	1.5KE400CA
1.5KE440(C)A-G	418.00	462.00	1.0	1.0	376.2	2.47	602.0	1.5KE440A	1.5KE440CA
1.5KE500(C)A-G	475.00	525.00	1.0	1.0	427.5	2.17	690.0	1.5KE500A	1.5KE500CA
1.5KE520(C)A-G	494.00	546.00	1.0	1.0	444.6	2.09	717.6	1.5KE520A	1.5KE520CA
1.5KE550(C)A-G	522.50	577.50	1.0	1.0	470.3	1.98	759.0	1.5KE550A	1.5KE550CA
1.5KE600(C)A-G	570.00	630.00	1.0	1.0	513.0	1.81	828.0	1.5KE600A	1.5KE600CA

- Note: 1) Suffix A denotes 5% tolerance devices.
 2) Add suffix "C" or "CA" after part number to specify Bi-directional devices.
 3) For Bi-Directional devices having VR of 10 volts and under, the IR limit is double.

Company reserves the right to improve product design , functions and reliability without notice.

Taping Specification For Axial Lead Diodes



DO-201	SYMBOL	A	B	Z	T	E	L1	L2
	(mm)	10.00 ± 0.50	52.00 ± 0.50	1.20 (max)	6.00 ± 0.40	1.00 (max)	1.00 (max)	1.00 (max)
	(inch)	0.394 ± 0.020	2.047 ± 0.020	0.047 (max)	0.236 ± 0.016	0.039 (max)	0.039 (max)	0.039 (max)

DO-201	SYMBOL	D1	D0	D	W0	L	W	H
	(mm)	85.70 ± 0.30	16.60 ± 0.40	330.00	72.00 ± 3.00	260.00	75.00	145.00
	(inch)	3.374 ± 0.012	0.654 ± 0.016	13.000	2.835 ± 0.118	10.236	2.953	5.709

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Standard Packaging

Packaging	Code	Part Number
AMMO PACK	NA	1.5KEXXX(C)A-G
REEL PACK	T	1.5KEXXX(C)AT-G
BULK PACK	B	1.5KEXXX(C)AB-G

Note: (1) Suffix code after part number to specify packaging item.
 (2) XXX on behalf of serial products.

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-201AD	1,200	13

Case Type	AMMO PACK	
	BOX (pcs)	CARTON (pcs)
DO-201AD	1,000	10,000

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
DO-201AD	200	10,000



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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