

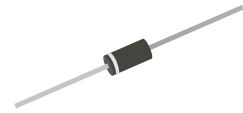
15KPA-HF Series

Reverse Voltage: 17 to 280V

Peak Pulse Power: 15000 Watts

RoHS Device

Halogen Free

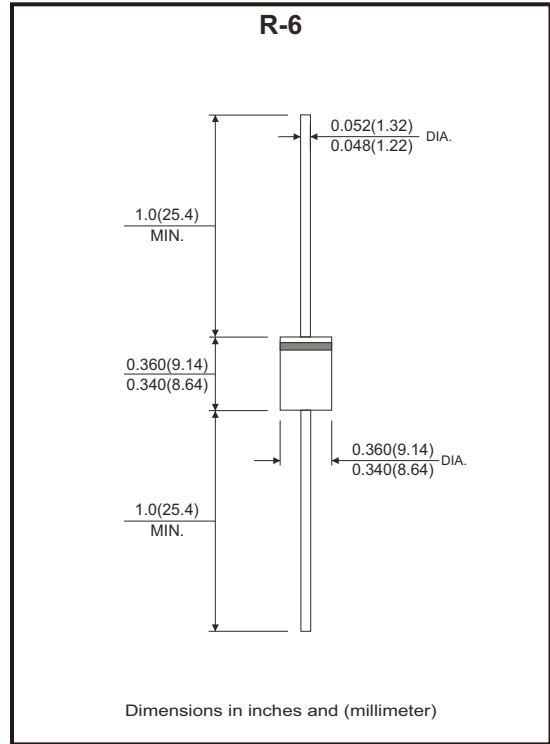


Features

- Glass passivated chip.
- 15000W peak pulse power capability with a 10/1000µs waveform, repetitive rate (duty cycle): 0.01%
- Low leakage.
- Uni and Bidirectional unit.
- Excellent clamping capability.
- Very fast response time.

Mechanical Data

- Case: Molded plastic R-6.
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202, method 208 guaranteed.
- Polarity: Cathode band denoted cathode end except bipolar.
- Mounting position: Any.



Circuit Diagram



Maximum Ratings and Electrical Characteristics

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

Parameter	Symbol	Value	Unit
Peak power dissipation with a 10/1000µs waveform (Note 1)	P _{PP}	15000	W
Peak pulse current with a 10/1000µs waveform (Note 1)	I _{PP}	See Next Table	A
Power dissipation on infinite heatsink at T _L =75°C	P _D	8.0	W
Peak forward surge current, 8.3ms single half sine-wave unidirectional only (Note 2)	I _{FSM}	500	A
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +175	°C

Notes: 1. Non-repetitive current pulse, per fig.5 and derated above TA=25°C per Fig.1
 2. Measured on 8.3 ms single half sine wave of equivalent square wave, duty cycle=4 pulses per minute maximum.

15000W Transient Voltage Suppressor



Electrical Characteristics (15KPA-HF Series)

Part No.		Breakdown voltage V _{BR} @ I _T			Maximum Reverse Leakage I _R @V _{RWM}	Working Peak Reverse Voltage @V _{RWM}	Maximum Reverse Surge Current I _{PP}	Maximum Clamping Voltage V _c @I _{PP}	Marking Code	
Uni	Bi	Min. (V)	Max. (V)	I _T (mA)					Uni	Bi
15KPA17A-HF	15KPA17CA-HF	18.99	20.79	50	5000	17.0	515.40	29.3	15KPA17A	15KPA17CA
15KPA18A-HF	15KPA18CA-HF	20.11	22.01	50	5000	18.0	488.70	30.9	15KPA18A	15KPA18CA
15KPA20A-HF	15KPA20CA-HF	22.34	24.46	20	1500	20.0	440.20	34.3	15KPA20A	15KPA20CA
15KPA22A-HF	15KPA22CA-HF	24.57	26.91	10	500	22.0	407.00	37.1	15KPA22A	15KPA22CA
15KPA24A-HF	15KPA24CA-HF	26.81	29.35	5	150	24.0	371.00	40.7	15KPA24A	15KPA24CA
15KPA26A-HF	15KPA26CA-HF	29.04	31.80	5	50	26.0	343.20	44.0	15KPA26A	15KPA26CA
15KPA28A-HF	15KPA28CA-HF	31.28	34.24	5	25	28.0	317.90	47.5	15KPA28A	15KPA28CA
15KPA30A-HF	15KPA30CA-HF	33.51	36.70	5	15	30.0	297.80	50.7	15KPA30A	15KPA30CA
15KPA33A-HF	15KPA33CA-HF	36.90	40.40	5	2	33.0	276.10	54.7	15KPA33A	15KPA33CA
15KPA36A-HF	15KPA36CA-HF	40.20	44.00	5	2	36.0	252.50	59.8	15KPA36A	15KPA36CA
15KPA40A-HF	15KPA40CA-HF	44.70	48.90	5	2	40.0	229.50	65.8	15KPA40A	15KPA40CA
15KPA43A-HF	15KPA43CA-HF	48.00	52.60	5	2	43.0	216.30	69.8	15KPA43A	15KPA43CA
15KPA45A-HF	15KPA45CA-HF	50.30	55.00	5	2	45.0	207.40	72.8	15KPA45A	15KPA45CA
15KPA48A-HF	15KPA48CA-HF	53.60	58.70	5	2	48.0	194.30	77.7	15KPA48A	15KPA48CA
15KPA51A-HF	15KPA51CA-HF	57.00	62.40	5	2	51.0	182.10	82.9	15KPA51A	15KPA51CA
15KPA54A-HF	15KPA54CA-HF	60.30	66.00	5	2	54.0	172.20	87.7	15KPA54A	15KPA54CA
15KPA58A-HF	15KPA58CA-HF	64.80	70.90	5	2	58.0	161.00	93.8	15KPA58A	15KPA58CA
15KPA60A-HF	15KPA60CA-HF	67.00	73.40	5	2	60.0	155.00	97.4	15KPA60A	15KPA60CA
15KPA64A-HF	15KPA64CA-HF	71.50	78.30	5	2	64.0	144.90	104.2	15KPA64A	15KPA64CA
15KPA70A-HF	15KPA70CA-HF	78.20	85.60	5	2	70.0	132.90	113.6	15KPA70A	15KPA70CA
15KPA75A-HF	15KPA75CA-HF	83.80	91.70	5	2	75.0	123.80	122.0	15KPA75A	15KPA75CA
15KPA78A-HF	15KPA78CA-HF	87.10	95.40	5	2	78.0	119.70	126.1	15KPA78A	15KPA78CA
15KPA85A-HF	15KPA85CA-HF	94.90	104.00	5	2	85.0	109.70	137.6	15KPA85A	15KPA85CA
15KPA90A-HF	15KPA90CA-HF	100.50	110.10	5	2	90.0	103.70	145.6	15KPA90A	15KPA90CA
15KPA100A-HF	15KPA100CA-HF	111.70	122.30	5	2	100.0	93.60	161.3	15KPA100A	15KPA100CA
15KPA110A-HF	15KPA110CA-HF	122.90	134.50	5	2	110.0	84.50	178.6	15KPA110A	15KPA110CA
15KPA120A-HF	15KPA120CA-HF	134.00	146.80	5	2	120.0	78.50	192.3	15KPA120A	15KPA120CA
15KPA130A-HF	15KPA130CA-HF	145.20	159.00	5	2	130.0	72.50	208.3	15KPA130A	15KPA130CA
15KPA150A-HF	15KPA150CA-HF	167.60	183.50	5	2	150.0	62.40	241.9	15KPA150A	15KPA150CA
15KPA160A-HF	15KPA160CA-HF	178.70	195.70	5	2	160.0	58.40	258.6	15KPA160A	15KPA160CA
15KPA170A-HF	15KPA170CA-HF	189.90	207.90	5	2	170.0	55.40	272.7	15KPA170A	15KPA170CA
15KPA180A-HF	15KPA180CA-HF	201.10	220.10	5	2	180.0	52.30	288.5	15KPA180A	15KPA180CA
15KPA200A-HF	15KPA200CA-HF	223.40	244.60	5	2	200.0	47.30	319.1	15KPA200A	15KPA200CA
15KPA220A-HF	15KPA220CA-HF	245.70	269.10	5	2	220.0	42.40	356.0	15KPA220A	15KPA220CA
15KPA240A-HF	15KPA240CA-HF	268.10	293.50	5	2	240.0	39.30	384.6	15KPA240A	15KPA240CA
15KPA260A-HF	15KPA260CA-HF	290.40	318.00	5	2	260.0	36.20	416.7	15KPA260A	15KPA260CA
15KPA280A-HF	15KPA280CA-HF	312.80	342.40	5	2	280.0	33.20	454.5	15KPA280A	15KPA280CA

Notes: 1. For Bi-Directional devices having V_R of 30 volts and under, the I_R limit is double.

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

REV:A

Rating and Characteristic Curves (15KPA-HF Series)

Fig.1 - Pulse Derating Curve

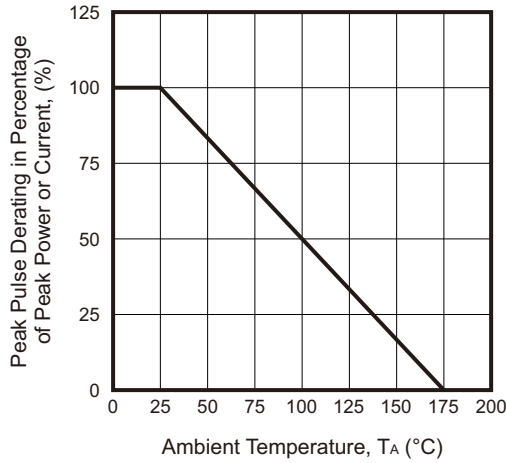


Fig.2 - Maximum Non-Repetitive Surge Current

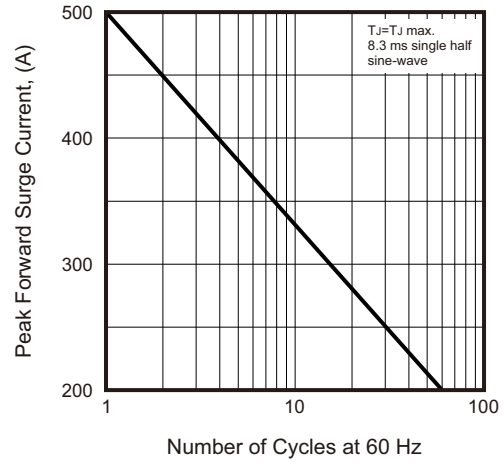


Fig.3 - Steady State Power Derating Curve

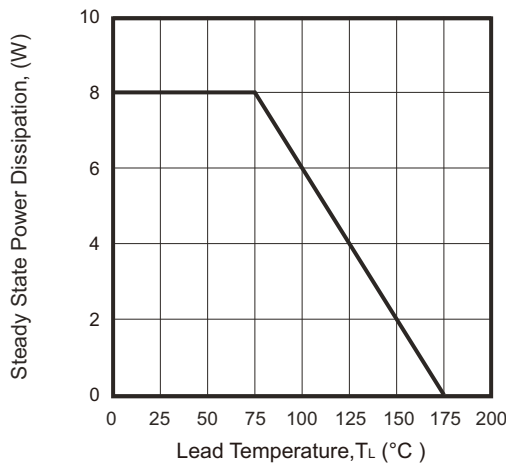


Fig.4 - Peak Pulse Power Rating Curve

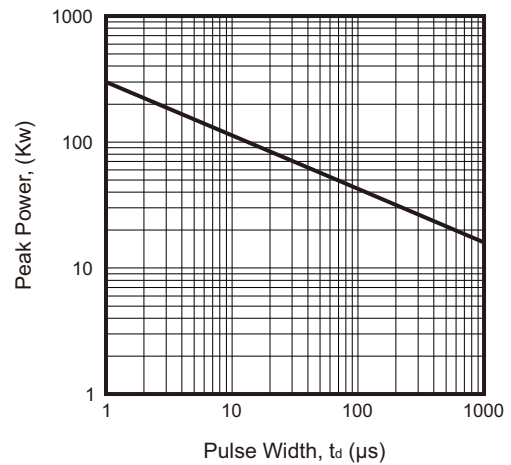


Fig.5 - Pulse Waveform

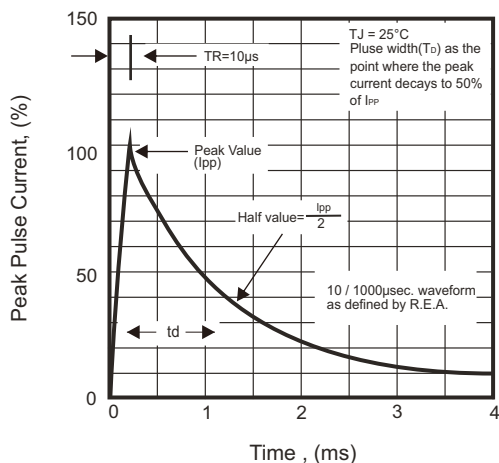
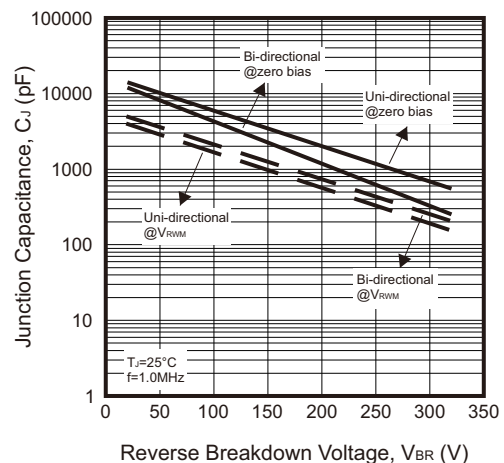


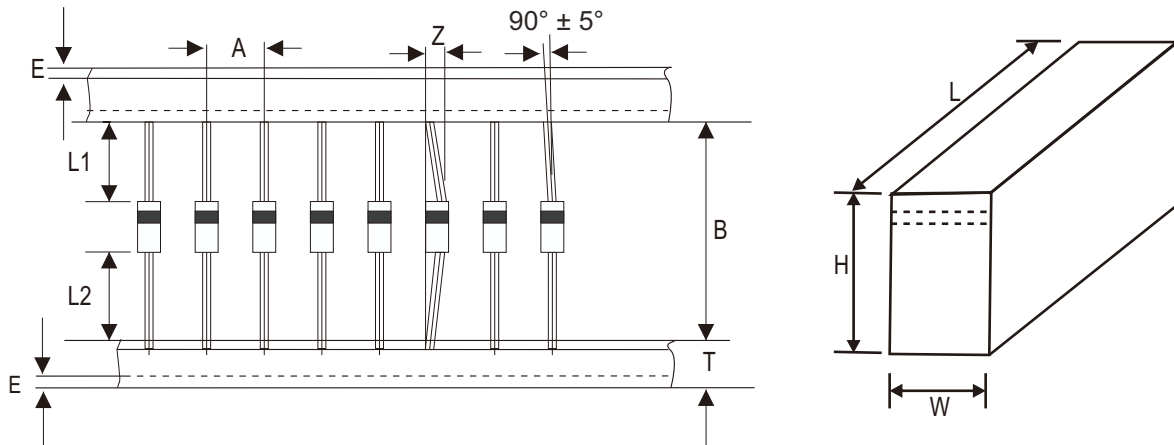
Fig.6 - Typical Junction Capacitance



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Taping Specification For Axial Lead Diodes



R-6	SYMBOL	A	B	Z	T	E
	(mm)	10.00 ± 0.50	52.00 ± 0.50	1.2 (max)	6.00 ± 0.40	1.0 (max)
	(inch)	0.394 ± 0.020	2.047 ± 0.020	0.047 (max)	0.236 ± 0.016	0.039 (max)

R-6	SYMBOL	L1-L2	L	W	H
	(mm)	1.0 (max)	252	80	117
	(inch)	0.039 (max)	9.921	3.150	4.606

Standard Packaging

Case Type	AMMO PACK
	BOX (pcs)
R-6	250