Reverse Voltage: 17 to 280 V

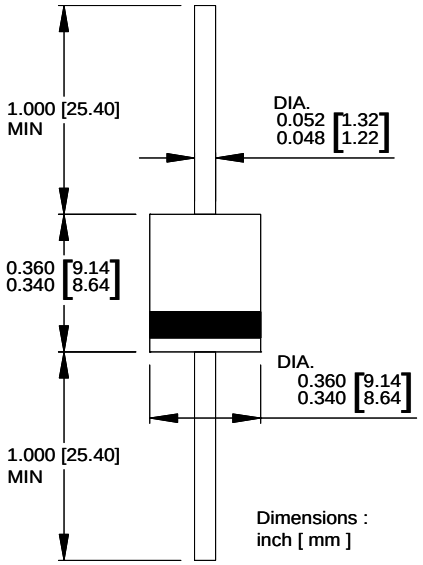
Peak Pulse Power: 15000 W

Features

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

Axial Lead

R-6/P600



Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-202, method 208 guranteed
- Polarity: Color band denotes cathode end except Bipolar
- Mounting position: Any

Maximum Ratings(T_A=25℃ unless otherwise noted)

Parameter	Symbol	Value	UNIT
Peak power dissipation with a 10/1000μs waveform(1)	P_{PP}	15000	W
Peak pulse current wih a 10/1000μs waveform(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, 8.3 ms single half sine-wave unidirectional only(2)	I_{FSM}	500	A
Operating junction and storage temperature range	T_J, T_{STG}	–55 to +150	°C

Note:

(1)Non-repetitive current pulse per Fig.5 and derated above T_A= 25 °C per Fig.1

(2)Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum

Ratings and Characteristics Curves (T_A=25℃ unless otherwise noted)

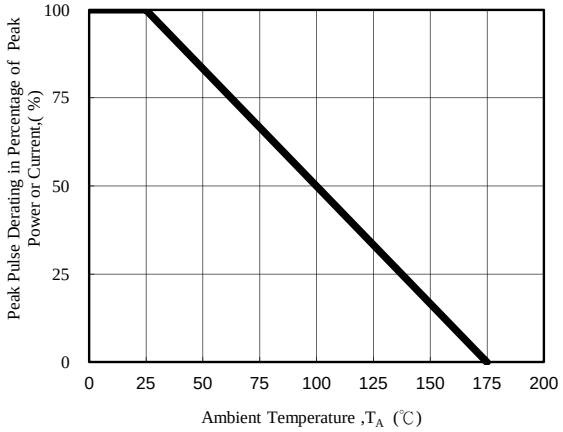


Fig. 1 - Pulse Derating Curve

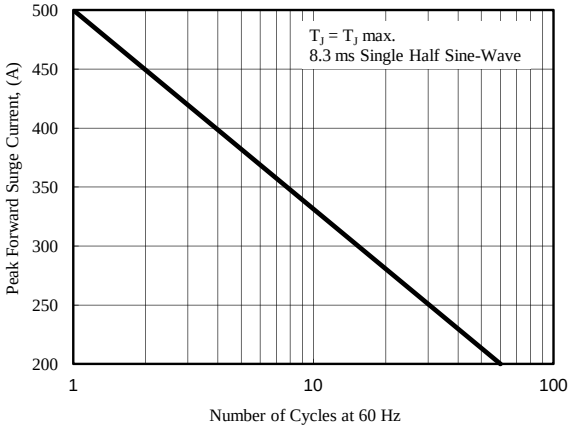


Fig. 2 - Maximum Non-Repetitive Surge Current

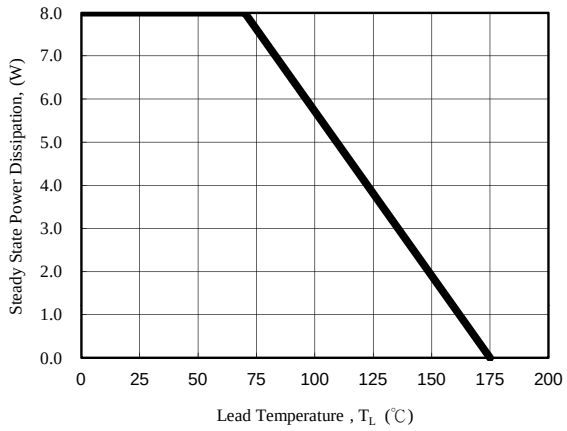


Fig. 3 - Steady State Power Derating Curve

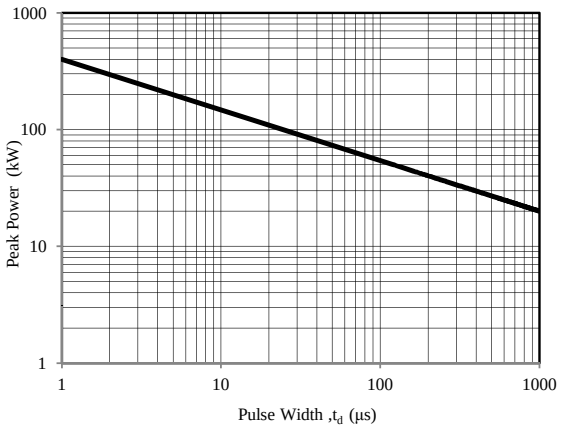


Fig. 4 - Peak Pulse Power Rating Curve

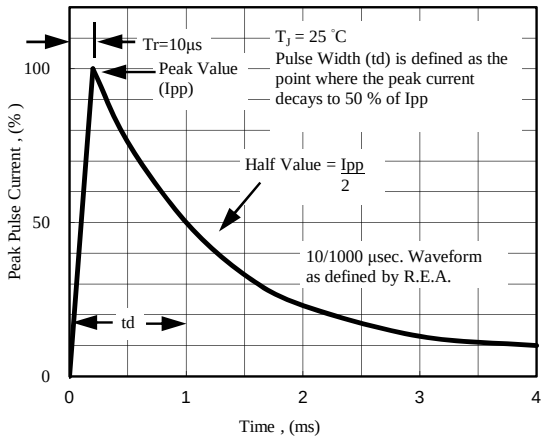


Fig. 5 - Pulse Waveform

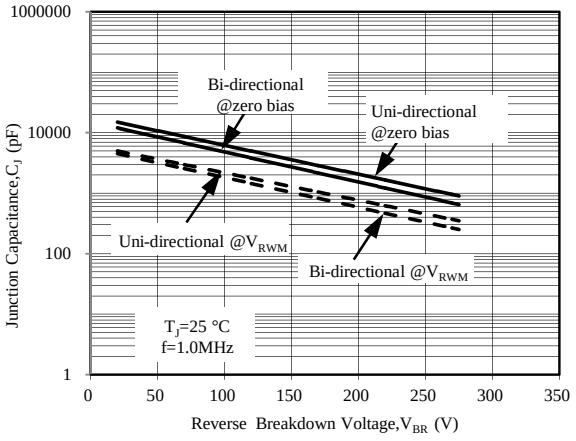


Fig. 6 - Typical Junction Capacitance

Electrical Characteristics(T_A=25℃ unless otherwise noted)

Part Number (Uni)	Part Number (Bi)	Breakdown Voltage V_{BR} @ I_T		Maximum Reverse Leakage I_R @V_{RWM} (uA)	Working Peak Reverse Voltage V_{RWM} (V)	Maximum Reverse Surge Current I_{PP} (A)	Maximum Clamping Voltage V_C @I_{PP} (V)
		Min (V)	I_T (mA)				
T15KPA17A	T15KPA17CA	18.99	50	5000	17	515.4	29.3
T15KPA18A	T15KPA18CA	20.11	50	5000	18	488.7	30.9
T15KPA20A	T15KPA20CA	22.34	20	1500	20	440.2	34.3
T15KPA22A	T15KPA22CA	24.57	10	500	22	407.0	37.1
T15KPA24A	T15KPA24CA	26.81	5	150	24	371.0	40.7
T15KPA26A	T15KPA26CA	29.04	5	50	26	343.2	44.0
T15KPA28A	T15KPA28CA	31.28	5	25	28	317.9	47.5
T15KPA30A	T15KPA30CA	33.51	5	15	30	297.8	50.7
T15KPA33A	T15KPA33CA	36.90	5	2	33	276.1	54.7
T15KPA36A	T15KPA36CA	40.20	5	2	36	252.5	59.8
T15KPA40A	T15KPA40CA	44.70	5	2	40	229.5	65.8
T15KPA43A	T15KPA43CA	48.00	5	2	43	216.3	69.8
T15KPA45A	T15KPA45CA	50.30	5	2	45	207.4	72.8
T15KPA48A	T15KPA48CA	53.60	5	2	48	194.3	77.7
T15KPA51A	T15KPA51CA	57.00	5	2	51	182.1	82.9
T15KPA54A	T15KPA54CA	60.30	5	2	54	172.2	87.7
T15KPA58A	T15KPA58CA	64.80	5	2	58	161.0	93.8
T15KPA60A	T15KPA60CA	67.00	5	2	60	155.0	97.4
T15KPA64A	T15KPA64CA	71.50	5	2	64	144.9	104.2
T15KPA70A	T15KPA70CA	78.20	5	2	70	132.9	113.6
T15KPA75A	T15KPA75CA	83.80	5	2	75	123.8	122.0
T15KPA78A	T15KPA78CA	87.10	5	2	78	119.7	126.1
T15KPA85A	T15KPA85CA	94.90	5	2	85	109.7	137.6
T15KPA90A	T15KPA90CA	100.50	5	2	90	103.7	145.6
T15KPA100A	T15KPA100CA	111.70	5	2	100	93.6	161.3
T15KPA110A	T15KPA110CA	122.90	5	2	110	84.5	178.6
T15KPA120A	T15KPA120CA	134.00	5	2	120	78.5	192.3
T15KPA130A	T15KPA130CA	145.20	5	2	130	72.5	208.3
T15KPA150A	T15KPA150CA	167.60	5	2	150	62.4	241.9
T15KPA160A	T15KPA160CA	178.70	5	2	160	58.4	258.6
T15KPA170A	T15KPA170CA	189.90	5	2	170	55.4	272.7
T15KPA180A	T15KPA180CA	201.10	5	2	180	52.3	288.5
T15KPA200A	T15KPA200CA	223.40	5	2	200	47.3	319.1
T15KPA220A	T15KPA220CA	245.70	5	2	220	35.2	428.6
T15KPA240A	T15KPA240CA	268.10	5	2	240	39.3	384.6
T15KPA260A	T15KPA260CA	290.40	5	2	260	36.2	416.7
T15KPA280A	T15KPA280CA	312.80	5	2	280	33.2	454.5

Note:

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