

VOLTAGE RANGE: 17- 280V

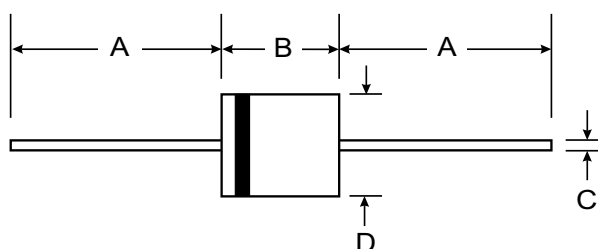
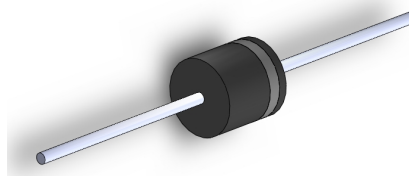
POWER: 10000Watts

Features

- Glass passivated junction
- 10000W Peak Pulse Power capability on 10/1000 μ s waveform
- Excellent clamping capability
- Repetition rate (duty cycle):0.05%
- Low incremental surge resistance
- Fast response time: typically less than 1.0 ps from 0 volts to BV Bidirectional less than 10 ns
- High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension

Mechanical Data

- Case : R-6
- Terminals: Plated Axial leads, solderable per MIL-STD-750, Method 2026
- Mounting Position: Any
- Weight: 0.07 ounce, 2.1 gram



R-6		
Dim	Min	Max
A	25.4	—
B	8.6	9.1
C	1.2	1.3
All Dimensions in mm		

MAXIMUM RATINGS Rating at 25 °C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 μ s	P_{PPM}	Minimum 10000	Watts
Peak Pulse Current of on 10/1000 μ s waveform (Note 1,FIG.3)	I_{PPM}	SEE TABLE 1	Amps
Steady State Power Dissipation at $T_L = 75^\circ\text{C}$	$P_{M(AV)}$	8	Watts
Peak Forward Surge Current,1/20 second / 25°C (JEDEC Method)	I_{FSM}	400	Amps
Operating junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 175	$^\circ\text{C}$

TYPE		Reverse Stand-Off Voltage	Breakdown Voltage Min. @I _T	Breakdown Voltage Max. @ I _T	Test Current	Peak Pulse Current	Reverse Leakage @V _{RWM}	Maximum Clamping Voltage @I _{PP}
(UNI)	(BI)	V _{RWM} (V)	V _{BR} MIN(V)	V _{BR} MAX(V)	I _T (mA)	I _{PP} (A)	I _R (uA)	V _C (V)
10KPA17A	10KPA17CA	17	18.99	20.79	50	515.4	5000	29.3
10KPA18A	10KPA18CA	18	20.11	22.01	50	488.7	5000	30.9
10KPA20A	10KPA20CA	20	22.34	24.46	20	440.2	1500	34.3
10KPA22A	10KPA22CA	22	24.57	26.91	10	407.0	500	37.1
10KPA24A	10KPA24CA	24	26.81	29.35	5	371.0	150	40.7
10KPA26A	10KPA26CA	26	29.04	31.80	5	343.2	50	44.0
10KPA28A	10KPA28CA	28	31.28	34.24	5	317.9	25	47.5
10KPA30A	10KPA30CA	30	33.51	36.69	5	297.8	15	50.7
10KPA33A	10KPA33CA	33	36.9	40.4	5	276.1	2	54.7
10KPA36A	10KPA36CA	36	40.2	44.0	5	252.5	2	59.8
10KPA40A	10KPA40CA	40	44.7	48.9	5	229.5	2	65.8
10KPA43A	10KPA43CA	43	48.0	52.6	5	216.3	2	69.8
10KPA45A	10KPA45CA	45	50.3	55.0	5	207.4	2	72.8
10KPA48A	10KPA48CA	48	53.6	58.7	5	194.3	2	77.7
10KPA51A	10KPA51CA	51	57.0	62.4	5	182.1	2	82.9
10KPA54A	10KPA54CA	54	60.3	66.0	5	172.2	2	87.7
10KPA58A	10KPA58CA	58	64.8	70.9	5	161.0	2	93.8
10KPA60A	10KPA60CA	60	67.0	73.4	5	155.0	2	97.4
10KPA64A	10KPA64CA	64	71.5	78.3	5	144.9	2	104.2
10KPA70A	10KPA70CA	70	78.2	85.6	5	132.9	2	113.6
10KPA75A	10KPA75CA	75	83.8	91.7	5	123.8	2	122.0
10KPA78A	10KPA78CA	78	87.1	95.4	5	119.7	2	126.1
10KPA85A	10KPA85CA	85	94.9	104.0	5	109.7	2	137.6
10KPA90A	10KPA90CA	90	100.5	110.1	5	103.7	2	145.6
10KPA100A	10KPA100CA	100	111.7	122.3	5	93.6	2	161.3
10KPA110A	10KPA110CA	110	122.9	134.5	5	84.5	2	178.6
10KPA120A	10KPA120CA	120	134.0	146.8	5	78.5	2	192.3
10KPA130A	10KPA130CA	130	145.2	159.0	5	72.5	2	208.3
10KPA150A	10KPA150CA	150	167.6	183.5	5	62.4	2	241.9
10KPA160A	10KPA160CA	160	178.7	195.7	5	58.4	2	258.6
10KPA170A	10KPA170CA	170	189.9	207.9	5	55.4	2	272.7
10KPA180A	10KPA180CA	180	201.1	220.1	5	52.3	2	288.5
10KPA200A	10KPA200CA	200	223.4	244.6	5	47.3	2	319.1
10KPA220A	10KPA220CA	220	245.7	269.1	5	35.2	2	428.6
10KPA240A	10KPA240CA	240	268.1	293.5	5	39.3	2	384.6
10KPA260A	10KPA260CA	260	290.4	318.0	5	36.2	2	416.7
10KPA280A	10KPA280CA	280	312.8	342.4	5	33.2	2	454.5

For bidirectional type having V_{RWM} of 30 volts and less, the I_R limit is double. For parts with A , the V_{BR} is ±5%

Figure 1 - Peak Pulse Power Rating Curve

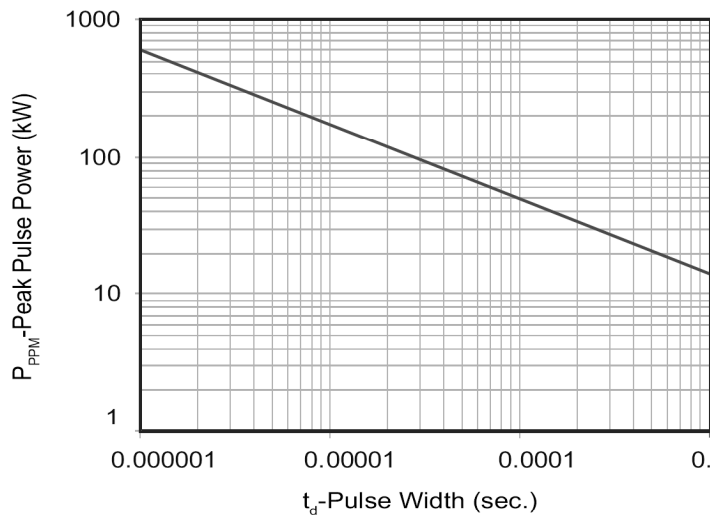


Figure 2 - Pulse Derating Curve

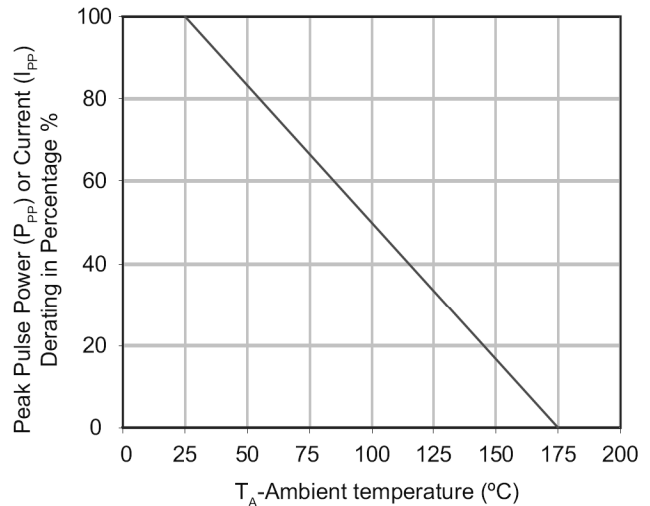


Figure 3 - Pulse Wavetform

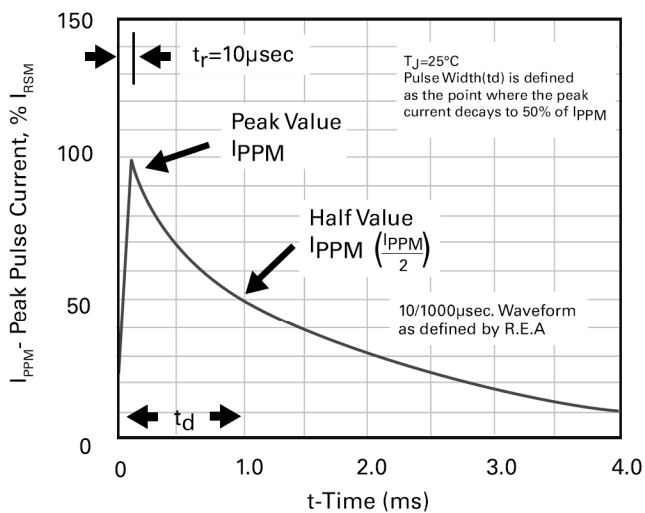


Figure 5 - Steady State Power Derating Curve

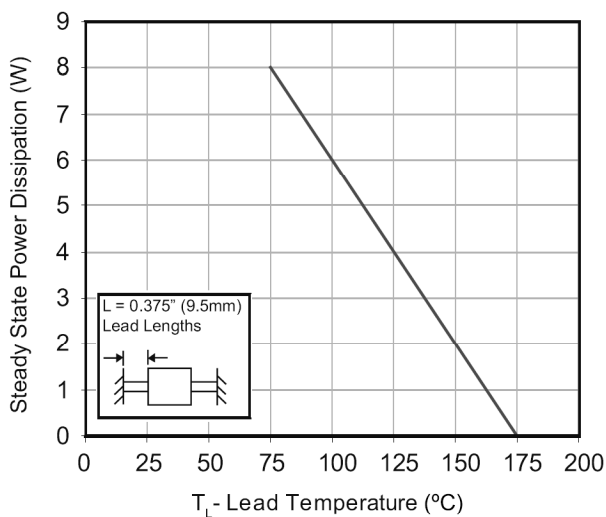


Figure 4 - Typical Junction Capacitance

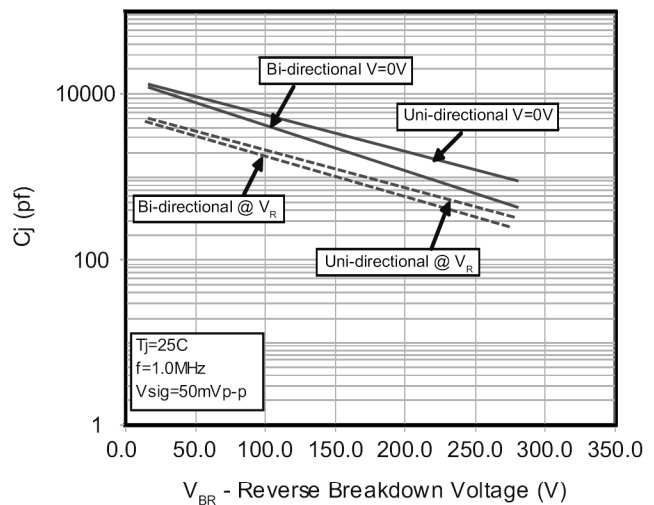


Figure 6 - Maximum Non-Repetitive Peak Forward Surge Current

