

VOLTAGE RANGE: 17- 280V

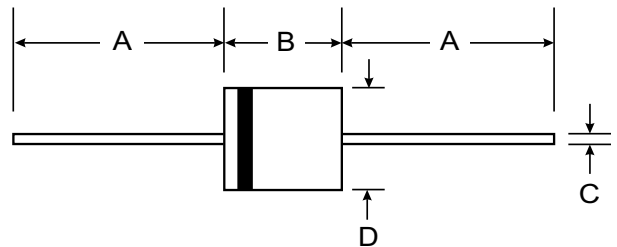
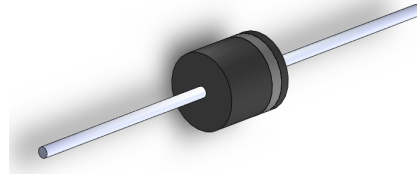
POWER: 10000Watts

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	°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)
10KP17A	10KP17CA	17	18.99	20.79	50	515.4	5000	29.3
10KP18A	10KP18CA	18	20.11	22.01	50	488.7	5000	30.9
10KP20A	10KP20CA	20	22.34	24.46	20	440.2	1500	34.3
10KP22A	10KP22CA	22	24.57	26.91	10	407.0	500	37.1
10KP24A	10KP24CA	24	26.81	29.35	5	371.0	150	40.7
10KP26A	10KP26CA	26	29.04	31.80	5	343.2	50	44.0
10KP28A	10KP28CA	28	31.28	34.24	5	317.9	25	47.5
10KP30A	10KP30CA	30	33.51	36.69	5	297.8	15	50.7
10KP33A	10KP33CA	33	36.9	40.4	5	276.1	2	54.7
10KP36A	10KP36CA	36	40.2	44.0	5	252.5	2	59.8
10KP40A	10KP40CA	40	44.7	48.9	5	229.5	2	65.8
10KP43A	10KP43CA	43	48.0	52.6	5	216.3	2	69.8
10KP45A	10KP45CA	45	50.3	55.0	5	207.4	2	72.8
10KP48A	10KP48CA	48	53.6	58.7	5	194.3	2	77.7
10KP51A	10KP51CA	51	57.0	62.4	5	182.1	2	82.9
10KP54A	10KP54CA	54	60.3	66.0	5	172.2	2	87.7
10KP58A	10KP58CA	58	64.8	70.9	5	161.0	2	93.8
10KP60A	10KP60CA	60	67.0	73.4	5	155.0	2	97.4
10KP64A	10KP64CA	64	71.5	78.3	5	144.9	2	104.2
10KP70A	10KP70CA	70	78.2	85.6	5	132.9	2	113.6
10KP75A	10KP75CA	75	83.8	91.7	5	123.8	2	122.0
10KP78A	10KP78CA	78	87.1	95.4	5	119.7	2	126.1
10KP85A	10KP85CA	85	94.9	104.0	5	109.7	2	137.6
10KP90A	10KP90CA	90	100.5	110.1	5	103.7	2	145.6
10KP100A	10KP100CA	100	111.7	122.3	5	93.6	2	161.3
10KP110A	10KP110CA	110	122.9	134.5	5	84.5	2	178.6
10KP120A	10KP120CA	120	134.0	146.8	5	78.5	2	192.3
10KP130A	10KP130CA	130	145.2	159.0	5	72.5	2	208.3
10KP150A	10KP150CA	150	167.6	183.5	5	62.4	2	241.9
10KP160A	10KP160CA	160	178.7	195.7	5	58.4	2	258.6
10KP170A	10KP170CA	170	189.9	207.9	5	55.4	2	272.7
10KP180A	10KP180CA	180	201.1	220.1	5	52.3	2	288.5
10KP200A	10KP200CA	200	223.4	244.6	5	47.3	2	319.1
10KP220A	10KP220CA	220	245.7	269.1	5	35.2	2	428.6
10KP240A	10KP240CA	240	268.1	293.5	5	39.3	2	384.6
10KP260A	10KP260CA	260	290.4	318.0	5	36.2	2	416.7
10KP280A	10KP280CA	280	312.8	342.4	5	33.2	2	454.5

For bidirectional type having V_{rw} 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

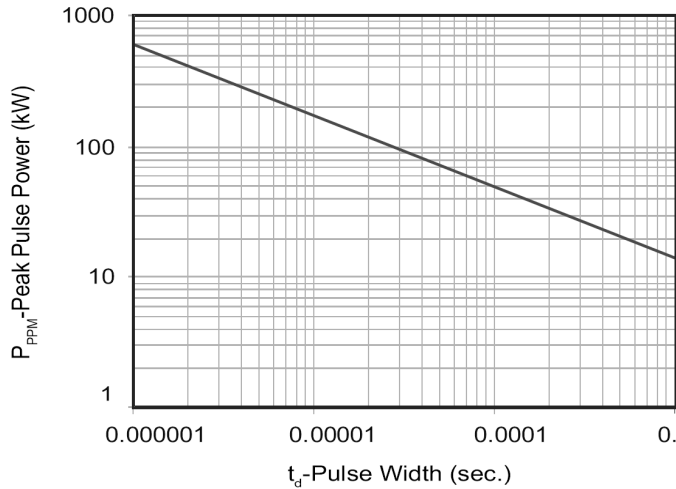


Figure 2 - Pulse Derating Curve

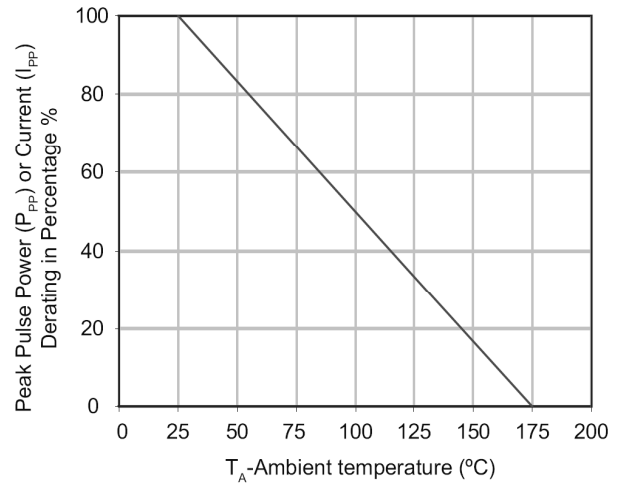


Figure 3 - Pulse waveform

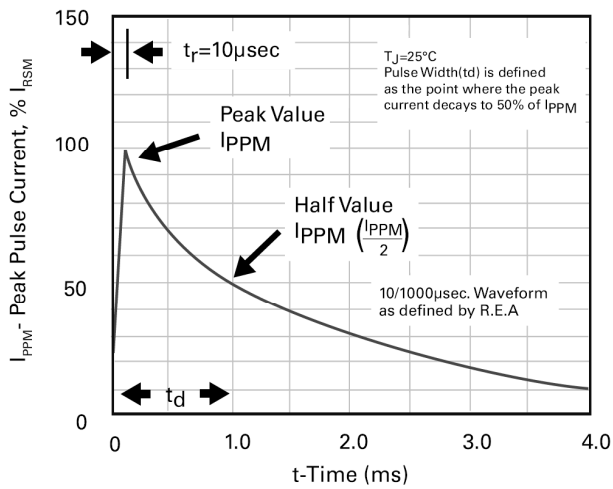


Figure 5 - Steady State Power Derating Curve

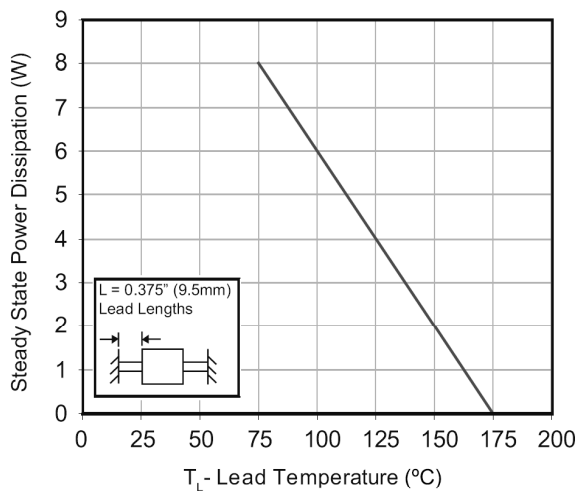


Figure 4 - Typical Junction Capacitance

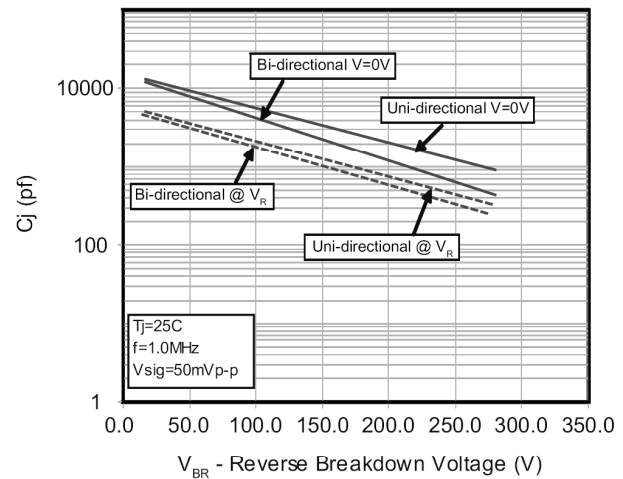


Figure 6 - Maximum Non-Repetitive Peak Forward Surge Current

