

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR
STAND-OFF VOLTAGE-17 TO 280 Volts
10000 Watt Peak Pulse Power

10KPA PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN. @ I_T	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX. @ I_T	TEST CURRENT I_T (mA)	PEAK PULSE CURRENT I_{pp} (A)	REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$	MAXIMUN CLAMPING VOLTAGE @ I_{pp} V_C (V)
UNI-POLAR	BI-POLAR							
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 IR limit is double.

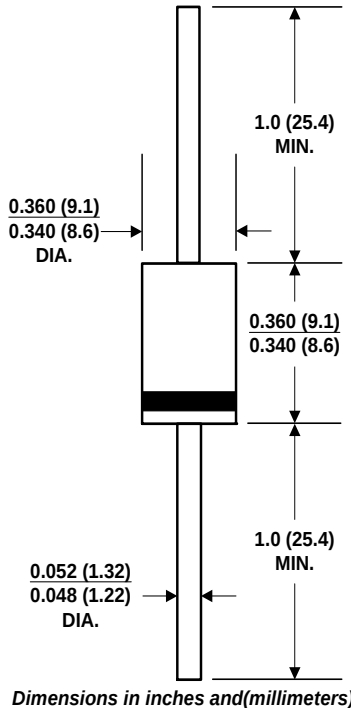
For parts with A , the V_{BR} is $\pm 5\%$

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

STAND-OFF VOLTAGE-17 TO 280 Volts

10000 Watt Peak Pulse Power

Case Style P600



FEATURES

- ◎ Plastic package
- ◎ Glass passivated junction
- ◎ 10000W peak pulse power capability on 10/1000us waveform
- ◎ Excellent clamping capability
- ◎ Repetition rate(duty cycle) : 0.05%
- ◎ Low incremental surge resistance
- ◎ Fast response time: typically less than 1.0ps from 0 Volts to BV, Bidirectional less than 10 ns
- ◎ High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length,51bs.(2.3kg) tension
- ◎ Pb-free plated

MECHANICAL DATA

Case: Molded plastic over glass passivated junction

Terminal: Solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes positive end (cathode) except Bipolar

Mounting Position: Any

Weight: 0.07 ounce, 2.5 grams

DEVICES FOR BIPOLAR APPLICATION

For Bidirectional use C or CA Suffix for types 15KPA17 thru types 15KPA280 (e.g. 15KPA17C , 15KPA280CA)
Electrical characteristics apply in both directions

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000μs waveform (Note 1,FIG.1)	P _{PPM}	Minimum 10000	Watts
Peak Pulse Current of on 10/1000μs waveform (Note 1,FIG.3)	I _{PPM}	SEE TABLE 1	Amps
Steady State Power Dissipation at T _L = 75°C , Lead lengths.375", (9.5mm) (Note 2)	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

RATINGS AND CHARACTERISTIC CURVES

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 1 - Peak Pulse Power Rating Curve

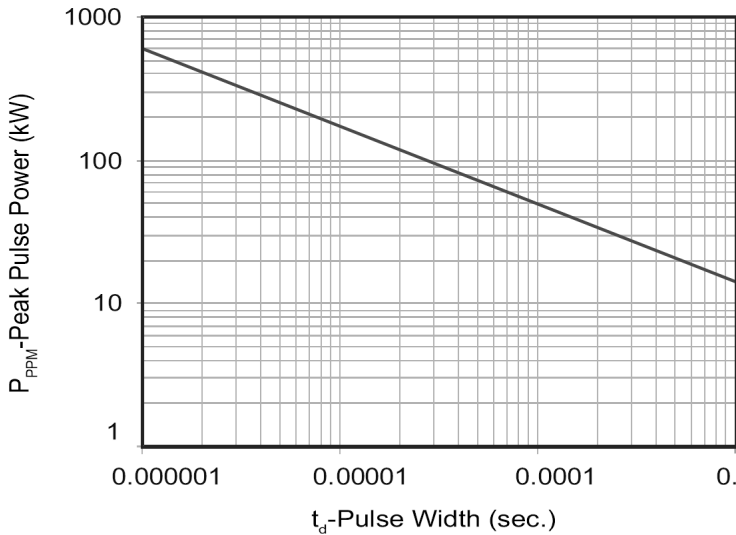


Figure 2 - Pulse Derating Curve

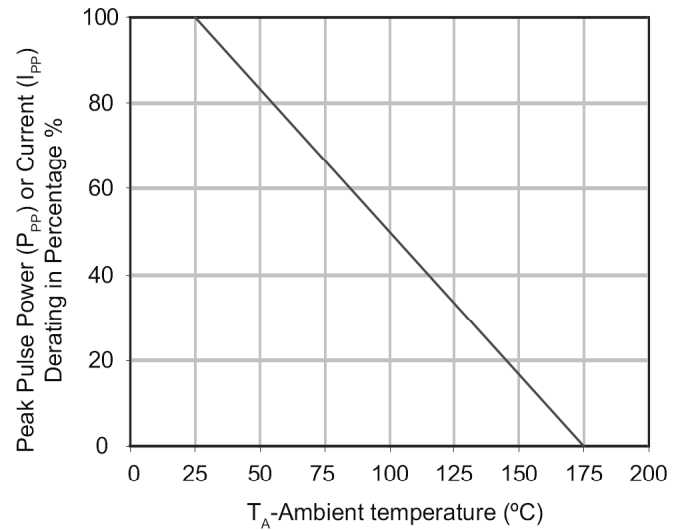


Figure 3 - Pulse Waveshape

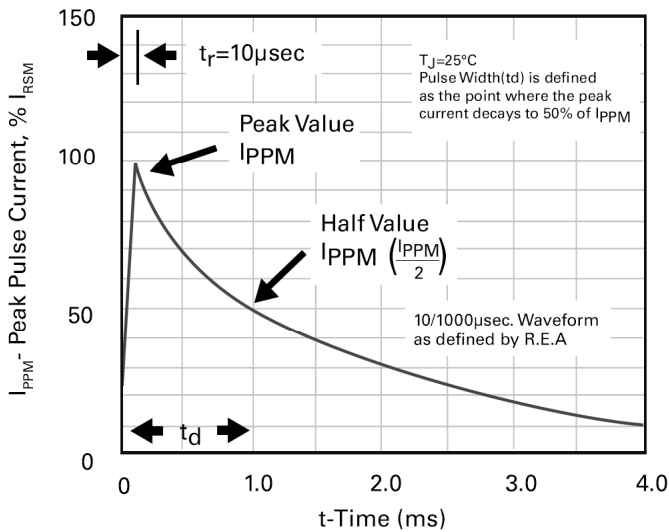


Figure 5 - Steady State Power Derating Curve

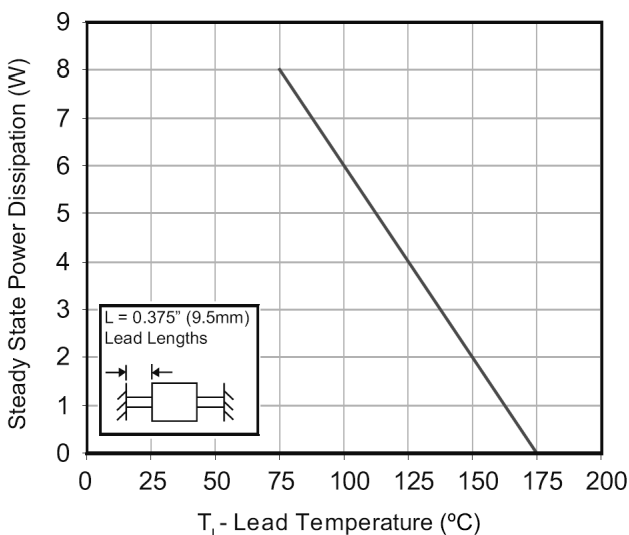


Figure 4 - Typical Junction Capacitance

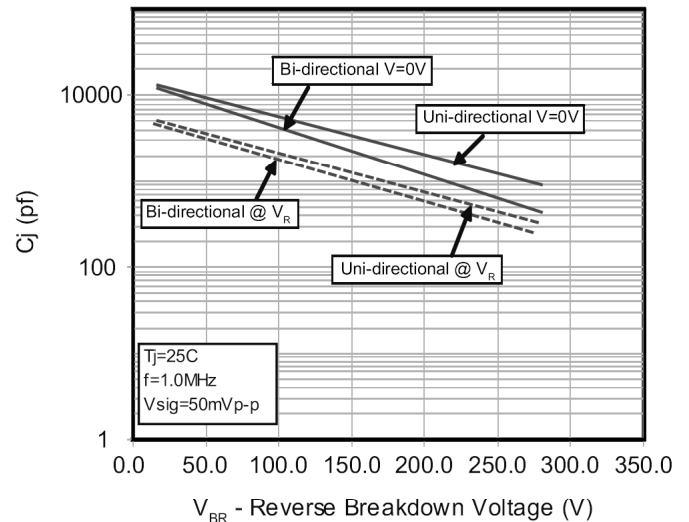


Figure 6 - Maximum Non-Repetitive Peak Forward Surge Current

