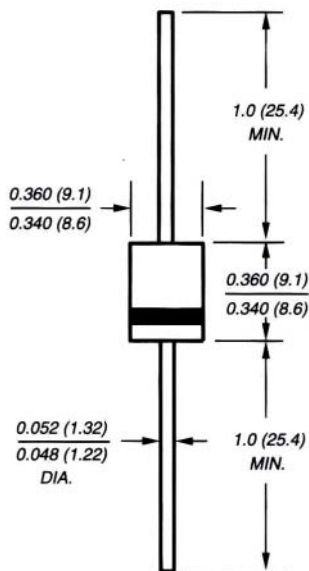


# 15KW SERIES

## SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR VOLTAGE-17 TO 280 Volts 15000 Watt Peak Pulse Power

Case Style P600



Dimensions in inches and (millimeters)  
Available in uni-directional only

### FEATURES

- Plastic package
- Glass passivated junction
- 15000W peak pulse power capability on 10/1000  $\mu$ s 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

### MECHANICAL DATA

- Case:** Molded plastic over glass passivated junction
- Terminal:** Plated Axial leads, 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 ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000 $\mu$ s waveform (Note 1,FIG.1)	$P_{PPM}$	Minimum 15000	Watts
Peak Pulse Current of on 10/1000 $\mu$ s waveform (Note 1,FIG.3)	$I_{PPM}$	SEE TABLE 1	Amps
Steady State Power Dissipation at $T_L = 75$ , Lead lengths.375",(9.5mm) (Note 2)	$P_{M(AV)}$	8	Watts
Peak Forward Surge Current,1/20 second / 25 (JEDEC Method)	$I_{FSM}$	400	Amps
Operating junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to + 175	

Notes :

- 1.Non-repetitive current pulse , per Fig. 3 and derated above  $T_A = 25$  per Fig. 2 .
- 2.Mounted on Copper Pad area of 0.8x0.8" (20x20mm) per Fig. 5

# 15KW SERIES

## GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

### VOLTAGE-17 TO 280 Volts

### 15000 Watt Peak Pulse Power

15KW PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE		MAXIMUM LEAKAGE CURRENT @ $V_{Rwm}$ $I_R(\mu A)$	MAXIMUM PEAK PULSE CURRENT @ $I_{pp}$ $I_{pp}$ (A)	MAXIMUM CLAMPING VOLTAGE @ $I_{pp}$ $V_C$ (V)
			MIN $V_{(BR)}$ Volts	@IT mA			
UNI-POLAR	BI-POLAR						
15KPA17A	15KPA17CA	17	18.9	50	5000	512	29.3
15KPA18A	15KPA18CA	18	20.0	50	5000	485	30.9
15KPA20A	15KPA20CA	20	22.2	20	1500	437	34.3
15KPA22A	15KPA22CA	22	24.4	10	500	404	37.1
15KPA24A	15KPA24CA	24	26.7	5	150	369	40.5
15KPA26A	15KPA26CA	26	28.9	5	50	347	44.0
15KPA28A	15KPA28CA	28	31.1	5	25	316	47.5
15KPA30A	15KPA30CA	30	33.3	5	15	296	50.7
15KPA33A	15KPA33CA	33	36.7	5	10	274	54.8
15KPA36A	15KPA36CA	36	40.0	5	10	251	59.7
15KPA40A	15KPA40CA	40	44.4	5	10	228	65.8
15KPA43A	15KPA43CA	43	47.8	5	10	215	69.7
15KPA45A	15KPA45CA	45	50.0	5	10	205	73.0
15KPA48A	15KPA48CA	48	53.3	5	10	193	77.7
15KPA51A	15KPA51CA	51	56.7	5	10	181	82.8
15KPA54A	15KPA54CA	54	60.0	5	10	171	87.5
15KPA58A	15KPA58CA	58	64.4	5	10	160	94.0
15KPA60A	15KPA60CA	60	66.7	5	10	154	97.3
15KPA64A	15KPA64CA	64	71.1	5	10	144	104.0
15KPA70A	15KPA70CA	70	77.8	5	10	132	114.0
15KPA75A	15KPA75CA	75	83.3	5	10	123	122.0
15KPA78A	15KPA78CA	78	86.7	5	10	119	126.0
15KPA85A	15KPA85CA	85	94.4	5	10	109	137.0
15KPA90A	15KPA90CA	90	100.0	5	10	103	146.0
15KPA100A	15KPA100CA	100	111.0	5	10	93	162.0
15KPA110A	15KPA110CA	110	122.0	5	10	84	178.0
15KPA120A	15KPA120CA	120	133.0	5	10	78	193.0
15KPA130A	15KPA130CA	130	144.0	5	10	72	209.0
15KPA150A	15KPA150CA	150	167.0	5	10	62	243.0
15KPA160A	15KPA160CA	160	178.0	5	10	58	259.0
15KPA170A	15KPA170CA	170	189.0	5	10	55	275.0
15KPA180A	15KPA180CA	180	200.0	5	10	52	291.0
15KPA200A	15KPA200CA	200	222.0	5	10	47	322.0
15KPA220A	15KPA220CA	220	245.0	5	10	42	356.0
15KPA240A	15KPA240CA	240	267.0	5	10	39	388.0
15KPA260A	15KPA260CA	260	289.0	5	10	36	419.0
15KPA280A	15KPA280CA	280	311.0	5	10	33	452.0

For bidirectional type having  $V_{Rwm}$  of 30 volts and less, the IR limit is double.

For parts without A , the  $V_{BR}$  is  $\pm 10\%$