

## 15KW Transient Voltage Suppressor

### Features

- Stand-off voltage from 17 to 280 volts
- Glass passivated junction
- 15KW peak pulse power capability on 10/1000µs waveform repetition rate(duty cycle): 0.05%
- Fast response time: typically less than 1.0ps from 0v to VBR  
Bidirectional less than 10ns
- Low incremental surge resistance, excellent clamping capability
- High temperature soldering guaranteed:  
265°C/10 seconds, 0.375" (9.5mm) lead length at 5lbs. (2.3kg tension)
- RoHS Compliant



T6L



### Mechanical Data

<b>Case:</b>	Molded plastic body over glass passivated junction
<b>Terminals:</b>	Plated axial leads, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Color band denotes the cathode except Bi-directional
<b>Mounting position:</b>	Any
<b>Weight:</b>	0.07 ounce, 2.5 grams

### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
<b>VWM</b>	Stand-Off Voltage	17 to 280	V	
<b>PPPM</b>	Peak Pulse Power Dissipation on 10/1000µs Waveform(Note 1)	Minimum 15	KW	
<b>IPPM</b>	Peak Pulse Current on 10/1000µs Waveform(Note 1)	See Table	A	
<b>IFSM</b>	Peak Forward Surge Current 8.3ms Single Half Sine-wave, Uni-directional only (Note 2)	400	A	
<b>TJ,TSTG</b>	Operating Junction and Storage Temperature Range	-55 to 175	° C	

**Notes:** (1) Non-repetitive current pulse, and derated above  $T_A = 25^{\circ}C$ .

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

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## 15KP17A - 15KP280CA

per minute maximum.

### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

P/N (Note2)		Stand-Off Voltage	Breakdown Voltage @ $I_T$			Max. Clamping Vltg. @ $I_{PPM}$	Max. Peak Pulse Current	Max. Reverse Leakage Current @ $V_{WM}$
			$V_{BR}$		$I_T$ (mA)			
Uni-Polar	Bi-Polar	$V_{WM}$ (V)	Min.	Max.		$V_C$ (V)	$I_{PPM}$ (A) (Note1)	$I_D$ ( $\mu A$ ) (Note1)
15KP17A	15KP17CA	17.0	18.9	20.9	50.0	29.3	512	5000
15KP18A	15KP18CA	18.0	20.0	22.1	50.0	30.9	485	5000
15KP20A	15KP20CA	20.0	22.2	24.5	20.0	34.3	437	1500
15KP22A	15KP22CA	22.0	24.4	26.9	10.0	37.1	404	500
15KP24A	15KP24CA	24.0	26.7	29.5	5.0	40.5	369	150
15KP26A	15KP26CA	26.0	28.9	31.9	5.0	44.0	347	50
15KP28A	15KP28CA	28.0	31.1	34.4	5.0	47.5	316	25
15KP30A	15KP30CA	30.0	33.3	36.8	5.0	50.7	296	15
15KP33A	15KP33CA	33.0	36.7	40.6	5.0	54.8	274	10
15KP36A	15KP36CA	36.0	40.0	44.2	5.0	59.7	251	10
15KP40A	15KP40CA	40.0	44.4	49.1	5.0	65.8	228	10
15KP43A	15KP43CA	43.0	47.8	52.8	5.0	69.7	215	10
15KP45A	15KP45CA	45.0	50.0	55.3	5.0	73.0	205	10
15KP48A	15KP48CA	48.0	53.3	58.9	5.0	77.7	193	10
15KP51A	15KP51CA	51.0	56.7	62.7	5.0	82.8	181	10
15KP54A	15KP54CA	54.0	60.0	66.3	5.0	87.5	171	10
15KP58A	15KP58CA	58.0	64.4	71.2	5.0	94.0	160	10
15KP60A	15KP60CA	60.0	66.7	73.7	5.0	97.3	154	10
15KP64A	15KP64CA	64.0	71.1	78.6	5.0	104.0	144	10
15KP70A	15KP70CA	70.0	77.8	86.0	5.0	114.0	132	10
15KP75A	15KP75CA	75.0	83.3	92.1	5.0	122.0	123	10
15KP78A	15KP78CA	78.0	86.7	95.8	5.0	126.0	119	10
15KP85A	15KP85CA	85.0	94.4	104.0	5.0	137.0	109	10
15KP90A	15KP90CA	90.0	100.0	111.0	5.0	146.0	103	10

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## 15KP17A - 15KP280CA

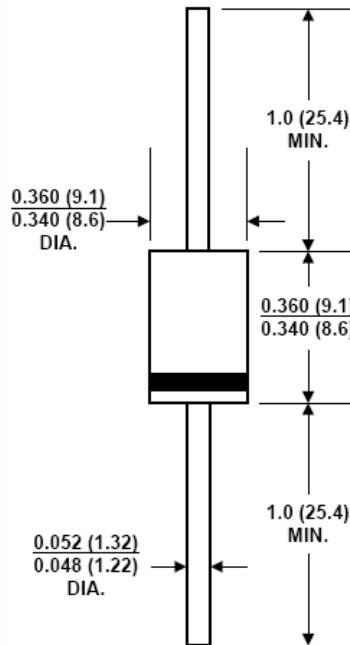
P/N (Note2)		Stand-Off Voltage	Breakdown Voltage @ I <sub>T</sub>			Max. Clamping Vltg. @ IPPM	Max. Peak Pulse Current	Max. Reverse Leakage Current @ V <sub>WM</sub>
Uni-Polar	Bi-Polar		V <sub>BR</sub>		I <sub>T</sub> (mA)			
		V <sub>WM</sub> (V)	Min.	Max.		V <sub>C</sub> (V)	IPPM (A) (Note1)	I <sub>D</sub> (μA) (Note1)
15KP100A	15KP100CA	100.0	111.0	123.0	5.0	162.0	93	10
15KP110A	15KP110CA	110.0	122.0	135.0	5.0	178.0	84	10
15KP120A	15KP120CA	120.0	133.0	147.0	5.0	193.0	78	10
15KP130A	15KP130CA	130.0	144.0	159.0	5.0	209.0	72	10
15KP150A	15KP150CA	150.0	167.0	185.0	5.0	243.0	62	10
15KP160A	15KP160CA	160.0	178.0	197.0	5.0	259.0	58	10
15KP170A	15KP170CA	170.0	189.0	209.0	5.0	275.0	55	10
15KP180A	15KP180CA	180.0	200.0	221.0	5.0	291.0	52	10
15KP200A	15KP200CA	200.0	222.0	246.0	5.0	322.0	47	10
15KP220A	15KP220CA	220.0	245.0	270.0	5.0	356.0	42	10
15KP240A	15KP240CA	240.0	267.0	295.0	5.0	388.0	39	10
15KP260A	15KP260CA	260.0	289.0	319.0	5.0	419.0	36	10
15KP280A	15KP280CA	280.0	311.0	343.0	5.0	452.0	33	10

- Note:** 1. For Bi-directional types with V<sub>WM</sub> of 10 volts and less, the I<sub>D</sub> limit is doubled.  
2. C suffix for Bidirectional use, A suffix for 5% tolerance.

# 15KW Transient Voltage Suppressor

15KP17A - 15KP280CA

## Dimensions in inch (mm)



Case T6L

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