

8000W Transient Voltage Suppressors

TVS Diodes - 8000W > 8KP Series



Description

The 8KP series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

Feature

- Plastic material has UL flammability classification 94V-0
- Typical IR less than 1uA above 12V
- Fast response time
- Glass passivated junction
- Low zener impedance • Excellent clamping capability
- Low inductance



Package: P600

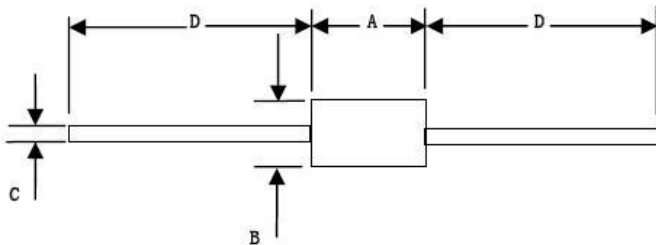
Applications

- I/O interface
- AC/DC power supply
- Low frequency signal transmission line.

Electrical Characteristics

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation at TA=25°C by 10 / 1000µs waveform (Fig.1)(Note 1)	PPPM	8000	W
Peak pulse current of at 10/1000µs waveform (Note 1, Fig.3)	IPPM	See Table	Amps
Steady state power dissipation at TL=75°C (Fig.5)	PM(AV)	8	W
Peak Forward Surge Current, 8.3ms Single Half Sine Wave superimposed on rated load, (JEDEC Method) (Note2, Fig.6)	IFSM	500	A
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

Dimensions - P600

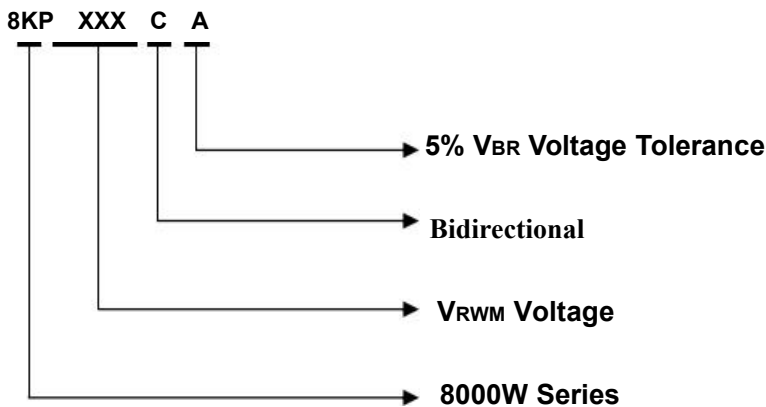


Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.34	0.36	8.60	9.10
B	0.34	0.36	8.60	9.10
C	0.048	0.052	1.22	1.32
D	1.000		25.4	

Electrical Characteristics (TA=25°C)

Part Number		Reverse Stand-Off Voltage	Breakdown Voltage $V_{BR}(V_{ts})@I_T$		Test Current	Maximum Clamping Voltage @ I_{PP}	Peak Pulse Current	Reverse Leakage @ V_{RWM}	Certification	Delivery Time
Uni-Polar	Bi-polar	$V_{RWM}(V)$	Min	Max	$I_T(mA)$	$V_C(V)$	$I_{PP}(A)$	$I_R(\mu A)$	UL	days
8KP20A	8KP20CA	20.0	22.2	24.50	10	32.4	246.9	5	-	15days
8KP22A	8KP22CA	22.0	24.0	26.90	10	35.5	225.3	5	-	15days
8KP24A	8KP24CA	24.0	26.7	29.50	10	38.9	205.6	5	-	15days
8KP26A	8KP26CA	26.0	28.9	31.90	10	42.1	190.1	5	-	15days
8KP28A	8KP28CA	28.0	31.1	34.40	1	45.4	176.2	5	-	15days
8KP30A	8KP30CA	30.0	33.3	36.80	1	48.4	165.3	5	-	15days
8KP33A	8KP33CA	33.0	36.7	40.60	1	53.3	150.1	5	-	15days
8KP36A	8KP36CA	36.0	40.0	44.20	1	58.1	137.7	5	-	15days
8KP40A	8KP40CA	40.0	44.4	49.10	1	64.5	124.1	5	-	15days
8KP43A	8KP43CA	43.0	47.8	52.80	1	69.4	115.3	5	-	15days

Description of Part Number



Packing Options

Package	Description	Packing Quantity	Industry Standard
P600	Tape and Reel Pack	300PCS	EIA STD RS-296