

**Reverse Voltage: 24 to 43 V**

**Peak Pulse Power: 8000 W**

## Axial Lead Transient Voltage Suppressors

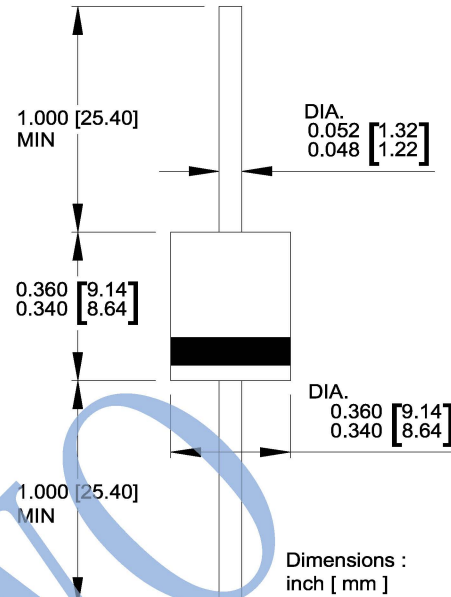
### Features

- Glass passivated chip
- 8000 W peak pulse power capability with a 10/1000  $\mu$ s waveform, repetitive rate (duty cycle):0.01 %
- Low leakage
- Uni and Bidirectional unit
- Excellent clamping capability
- Very fast response time
- RoHS compliant

### Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end except Bipolar
- Mounting position: Any

R-6/P600



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

Product	Breakdown voltage VBR (Volts) @ IT (mA)			Working PeakReverse Voltage $V_{RWM}$ (Volts)	Maximum Reverse Leakage @ $V_{RWM}$ IR( $\mu$ A)	Maximum Clamping Voltage @ $I_{PP}$ $V_C$ (Volts)	Peak Pulse Current with a 10/1000 waveform Ipp(Amps)
	Min.	Max.	IT				
8KP24(C)A	26.7	29.5	1	24	5	38.9	206
8KP33(C)A	36.7	40.6	1	33	5	53.3	150
8KP36(C)A	40	44.2	1	36	5	58.1	138
8KP40(C)A	44.4	49.1	1	40	5	64.5	124
8KP43(C)A	47.8	52.8	1	43	5	69.4	115

Parameter	Symbol	Value	UNIT
Peak power dissipation with a 10/1000 $\mu$ s waveform <sup>(1)</sup>	$P_{PP}$	8000	W
Peak pulse current with a 10/1000 $\mu$ s waveform <sup>(1)</sup>	$I_{PP}$	See Next Table	A
Power dissipation on infinite heatsink at $T_L = 75^\circ\text{C}$	$P_D$	8.0	W
Peak forward surge current, 8.3 ms single half sine-wave unidirectional only <sup>(2)</sup>	$I_{FSM}$	500	A
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150	$^\circ\text{C}$

#### Note:

(1) Non-repetitive current pulse per Fig.5 and derated above  $T_A = 25^\circ\text{C}$  per Fig.1

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

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