东沃电子
DOWOSEMI

8KP Series

Reverse Voltage: 24 to 43 V
Peak Pulse Power: 8000 W

Axial Lead
Transient Voltage Suppressors

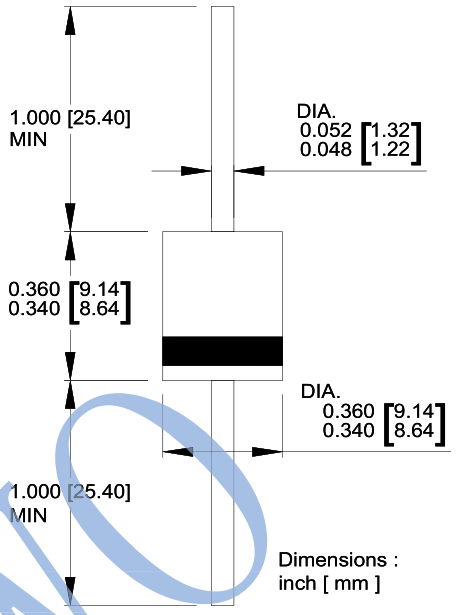
Features

- Glass passivated chip
- 8000 W peak pulse power capability with a 10/1000 μs 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 guranteed
- Polarity: Color band denotes cathode end except Bipolar
- Mounting position: Any

R-6/P600



Maximum Ratings(T_A=25℃ unless otherwise noted)

Product	Breakdown voltage VBR (Volts) @ IT (mA)			Working PeakReverse Voltage	Maximum Reverse Leakage @V_{RWM}	Maximum Clamping Voltage @ I_{pp}	Peak Pulse Current with a 10/1000 waveform
	Min.	Max.	IT	V_{RWM}(Volts)	IR(uA)	V_C(Volts)	Ipp(Amps)
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 10/1000μs waveform(1)	P_{PP}	8000	W
Peak pulse current wih a 10/1000μs waveform(1)	I_{PP}	See Next Table	A
Power dissipation on infinite heatsink at T_L = 75 °C	P_D	8.0	W
Peak forward surge current, 8.3 ms single half sine-wave unidirectional only(2)	I_{FSM}	500	A
Operating junction and storage temperature range	T_J, T_{STG}	–55 to +150	°C

Note:

(1)Non-repetitive current pulse per Fig.5 and derated above T_A= 25 °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