P4KE SERIES

GLASS PASSIVATED JUNCTION TRAN-SIENT VOLTAGE SUPPRESSOR

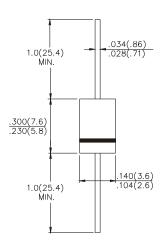


VOLTAGE 6.8 to 144 VOLTS 400 WATT PEAK POWER 1.0 WATTS STEADY STATE

FEATURES

- Plastic package has Underwrites Laboratory Flammability Classification 94V-O
- · Glass passivated chip junction in DO-15 package
- 400W surge capability at 1 ms
- Excellent clamping capability
- · Low zener impedance
- Fast response time: typically less than 1.0 ps from 0 volts to BV min.
- Typical IR less than 1 μ A above 10V
- High tempreature soldering guaranteed: 300°C/10 seconds /.375",(9.5mm) lead length/51bs.,(2.3kg) tension

DO-15



Dimensions in inches and (millimeters)

MECHANICAL DATA

- · Case:JEDEC DO-15 Molded plastic
- Terminals:Plated Axial leads, solderable per MIL-STD-202, Method 208
- · Polarity:Color band denotes cathode except Bipolar
- · Mounting Position: Any
- · Weight: 0.015 ounce, 0.4 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATINGS	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation at TA=25°C, TP=1ms (NOTE 1)	Ррк	Minimum 4000	Watts
Steady Power Dissipation at TL=75°C Lead Lengths .375",(9.5mm)(NOTE 2)	P□	1.0	Watts
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC Method)(NOTE 3)	IFSM	40.0	Amps
Operating Junction and Storage Temperature Range	TJ, TSTG	-65 to + 175	°C

Notes: 1. Non-repetitive current pulse, per Fig.3 and derated above TA=25°C per Fig.2

- 2. Measured on copper Leaf area of 1.57 in² (40mm²)
- 3. 8.3mm single half sine-wave, duty cycle=4 pulses minutes maximum.

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RATING AND CHARACTERISTICS CURVES P4KE SERIES

Fig. 1 - PEAK PULSE POWER VS PULSE TIME

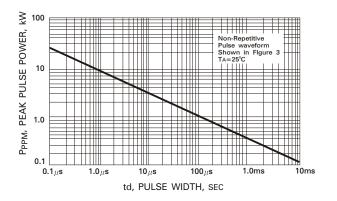


Fig. 3 - PULSE WAVEFORM

150

100

50

0 L

IPPM, PEAK PULSE CURRENT,

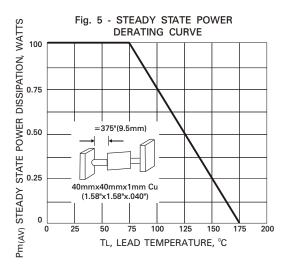
Peak Value | Peak

2.0

t, TIME, ms

4.0

3.0



1.0

Fig. 2 - PULSE DERATING CURVE

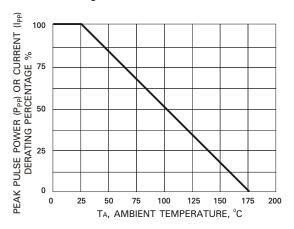


Fig. 4 - TYPICAL JUNCTION CAPACITANCE UNIDIRECTIONAL

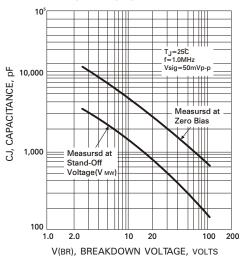


Fig. 6 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

