

P6KE SERIES

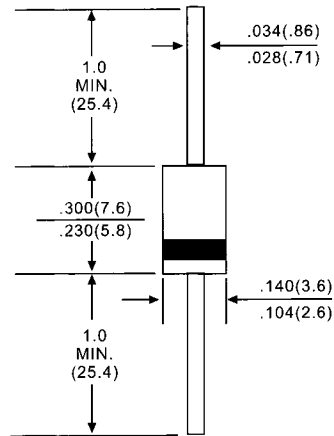
GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR VOLTAGE-6.8 to 440 Volts

600 watt Peak Power 5.0 Watt Steady State

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction in DO-15 (DO-204AC) Package
- 600W surge capability at 10/1000 μ s
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1.0ps from 0 Volts to BV min.
- Typical ID less than 1uA above 10V
- High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length, 5 lbs., (2.3kg) tension

DO-15



Dimension in inches
and
(millimeters)

MECHANICAL DATA

Case: JEDEC DO-15 Molded Plastic
Terminal: Axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denoted cathode except Bipolar
Mounting Position: Any
Weight: 0.015 ounce, 0.4 gram

DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types P6KE6.8 thru types P6KE440 (e.g. P6KE6.8C , P6KE440CA)
Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND 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%

RATING	SYMBOL	VALUE	UNITS
Peak Power Dissipation at $T_A=25^\circ\text{C}$, $T_P=1\text{ms}$ (Note 1)	PPPM	Minimum 600	Watts
Steady State Power Dissipation at $T_L=75^\circ\text{C}$ Lead Lengths .375", (9.5mm) (NOTE 2)	$P_{M(AV)}$	5.0	Watts
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)(NOTE 3)	I_{FSM}	100	Amps
Operating junction and Storage Temperature Range	T_J, T_{STG}	-55 to +175	°C

NOTES :

- 1.Non-repetitive current pulse , per Fig. 3 and derated above $T_A = 25^\circ\text{C}$ per Fig. 2 .
- 2.Mounted on Copper Pad area of $1.6 \times 1.6"$ ($40 \times 40\text{mm}$) per Fig. 5.
- 3.8.3ms single half sine-wave , duty cycle = 4 pulses per minutes maximum.

600 Watt Axial Lead TVS

UNI-DIRECTIONAL PART NUMBER	REVERSE STAND-OFF VOLTAGE VRWM (V)	BREAKDOWN VOLTAGE VBR (V) MIN.@ IT	BREAKDOWN VOLTAGE VBR (V) MAX.@ IT	TEST CURRENT IT (mA)	MAXIMUM CLAMPING VOLTAGE @Ipp Vc(V)	PEAK PULSE CURRENT Ipp (A)	REVERSE LEAKAGE @ VRWM IR (μA)
P6KE6.8(C)A	5.80	6.45	7.14	10	10.5	58.1	1000
P6KE7.5(C)A	6.40	7.13	7.88	10	11.3	54.0	500
P6KE8.2(C)A	7.02	7.79	8.61	10	12.1	50.4	200
P6KE9.1(C)A	7.78	8.65	9.55	1	13.4	45.5	50
P6KE10(C)A	8.55	9.50	10.50	1	14.5	42.1	10
P6KE11(C)A	9.40	10.50	11.60	1	15.6	39.1	5
P6KE12(C)A	10.20	11.40	12.60	1	16.7	36.5	5
P6KE13(C)A	11.10	12.40	13.70	1	18.2	33.5	5
P6KE15(C)A	12.80	14.30	15.80	1	21.2	28.8	5
P6KE16(C)A	13.60	15.20	16.80	1	22.5	27.1	5
P6KE18(C)A	15.30	17.10	18.90	1	25.2	24.2	5
P6KE20(C)A	17.10	19.00	21.00	1	27.7	22.0	5
P6KE22(C)A	18.80	20.90	23.10	1	30.6	19.9	5
P6KE24(C)A	20.50	22.80	25.20	1	33.2	18.4	5
P6KE27(C)A	23.10	25.70	28.40	1	37.5	16.3	5
P6KE30(C)A	25.60	28.50	31.50	1	41.4	14.7	5
P6KE33(C)A	28.20	31.40	34.70	1	45.7	13.3	5
P6KE36(C)A	30.80	34.20	37.80	1	49.9	12.2	5
P6KE39(C)A	33.30	37.10	41.00	1	53.9	11.3	5
P6KE43(C)A	36.80	40.90	45.20	1	59.3	10.3	5
P6KE47(C)A	40.20	44.70	49.40	1	64.8	9.4	5
P6KE51(C)A	43.60	48.50	53.60	1	70.1	8.7	5
P6KE56(C)A	47.80	53.20	58.80	1	77.0	7.9	5
P6KE62(C)A	53.00	58.90	65.10	1	85.0	7.2	5
P6KE68(C)A	58.10	64.60	71.40	1	92.0	6.6	5
P6KE75(C)A	64.10	71.30	78.80	1	103.0	5.9	5
P6KE82(C)A	70.10	77.90	86.10	1	113.0	5.4	5
P6KE91(C)A	77.80	86.50	95.50	1	125.0	4.9	5
P6KE100(C)A	85.50	95.00	105.00	1	137.0	4.5	5
P6KE110(C)A	94.00	105.00	116.00	1	152.0	4.0	5
P6KE120(C)A	102.00	114.00	126.00	1	165.0	3.7	5
P6KE130(C)A	111.00	124.00	137.00	1	179.0	3.4	5
P6KE150(C)A	128.00	143.00	158.00	1	207.0	2.9	5
P6KE160(C)A	136.00	152.00	168.00	1	219.0	2.8	5
P6KE170(C)A	145.00	162.00	179.00	1	234.0	2.6	5
P6KE180(C)A	154.00	171.00	189.00	1	246.0	2.5	5
P6KE200(C)A	171.00	190.00	210.00	1	274.0	2.2	5
P6KE220(C)A	185.00	209.00	231.00	1	328.0	1.9	5
P6KE250(C)A	214.00	237.00	263.00	1	344.0	1.8	5
P6KE300(C)A	256.00	285.00	315.00	1	414.0	1.5	5
P6KE350(C)A	300.00	332.00	368.00	1	482.0	1.3	5
P6KE400(C)A	342.00	380.00	420.00	1	548.0	1.1	5
P6KE440(C)A	376.00	418.00	462.00	1	602.0	1.0	5

For Bidirectional type having Vrwm of 10 volts and less,the ID limit is double.

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