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May 2015

1V5KE6V8(C)A - 1V5KE440(C)A 1500 W Transient Voltage Suppressors

Features

- · Glass-Passivated Junction
- 1500 W Peak Pulse Power Capability at 1.0 ms
- · Excellent Clamping Capability
- · Low Incremental Surge Resistance
- Fast Response Time; Typically
 1.0 ps from 0 V to BV for Uni-directional,
 5.0 ns for Bidirectional
- Typical I_R: 1.0 μA Above 10 V
- UL Certified: UL #E258596
- · Bi-directional Types Use CA Suffix
- · Electrical Characteristics apply in both directions



COLOR BAND DENOTES CATHODE
ON UNIDIRECTIONAL DEVICES ONLY. NO
COLOR BAND ON BIDIRECTIONAL DEVICES.

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25$ °C unless otherwise noted.

Symbol	Parameter	Value	Unit
P _{PPM}	Peak Pulse Power Dissipation t _P = 1 ms	1500	W
I _{PPM}	Peak Pulse Current	see table	Α
I _{FSM}	Non-Repetitive Peak Forward Surge Current Superimposed on Rated Load (JEDEC Method) ⁽¹⁾	200	Α
T _{stg}	Storage Temperature Range	-55 to +175	°C
TJ	Operating Junction Temperature	-55 to +175	°C

Note:

1. Measured on 8.3 ms single half-sine wave; duty cycle = 4 pulses per minute maximum.

Thermal Characteristics

Ī	Symbol	Parameter	Value	Unit
	P_{D}	Power Dissipation .375 inch lead length at T _A = 75°C	5.0	W

Electrical Characteristics

 $T_A = 25$ °C unless otherwise noted.

1/15KE6V8(C)A 5.80 6.45 7.14 10 10.5 143 1000 1/15KE6V8(C)A 6.40 7.13 7.88 10 11.3 133 500 1/15KE6V8(C)A 7.02 7.79 8.61 10 11.3 133 500 1/15KE9V1(C)A 7.78 8.65 9.55 1 13.4 112 50 1/15KE1V(C)A 8.55 9.50 10.5 1 14.5 103 10 1/15KE1V(C)A 9.40 10.5 11.6 1 15.6 96.2 5 1/15KE1V(C)A 10.2 11.4 12.6 1 16.7 90.0 5 1/15KE1V(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1/15KE1S(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1/15KE1S(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1/15KE1S(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1/15KE2V(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1/15KE2V(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1/15KE2V(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1/15KE3C(C)A 28.2 31.4 34.7 1 44.9 30.1 5 1/15KE3C(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1/15KE3C(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1/15KE3C(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1/15KE3C(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1/15KE3G(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1/15KE3G(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1/15KE3C(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1/15KE3C(C)A 36.8 40.9 45.2 1 59.0 10.5 1/15KE3C(C)A 36.8 36.5 36.5 1 10.0 10.0	Uni-directional Bi-directional (C) Device	Reverse Stand-Off Voltage	Volt	down age (V)	Test Current I _T (mA)	Clamping Voltage at I _{PPM}	Peak Pulse Current	Reverse Leakage at _V _{RWM}
1V5KE7V5(C)A 6.40 7.13 7.88 10 11.3 133 500 1V5KE8V2(C)A 7.02 7.79 8.61 10 12.1 124 200 1V5KE9V1(C)A 7.78 8.65 9.55 1 13.4 112 50 1V5KE10(C)A 8.55 9.50 10.5 1 14.5 103 10 1V5KE11(C)A 9.40 10.5 11.6 1 15.6 96.2 5 1V5KE12(C)A 10.2 11.4 12.6 1 16.7 90.0 5 1V5KE13(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1V5KE16(C)A 12.8 14.3 15.8 1 21.2 71.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE20(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE22(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE3(C)A 23.1 25.7 28.4 1 33.7 1 41.4 36.2 5 1V5KE3(C)A 26.6 28.5 31.5 1 41.4 36.2 5 1V5KE3(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE36(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE36(C)A 36.8 40.9 45.2 1 59.3 26.3 5 1V5KE47(C)A 36.8 40.9 45.2 1 59.3 26.3 5 1V5KE36(C)A 36.8 40.9 45.2 1 59.3 26.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE47(C)A 40.6 48.5 53.6 1 70.1 21.4 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE69(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE61(C)A 58.5 95.0 105.0 1 137.0 11.0 5 1V5KE10(C)A 94.0 106.0 116.0 1 155.0 9.9 5 1V5KE10(C)A 11.0 124.0 137.0 1 165.0 9.1 5 1V5KE150(C)A 11.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 11.0 124.0 137.0 1 179.0 8.4 5	Device	V _{RWM} (V)	Min.	Max.	IT (IIIA)	V _C (V)	I _{PPM} (A)	I ^R (μ A) ⁽²⁾
1V5KE8V2(C)A 7.02 7.79 8.61 10 12.1 124 200 1V5KE9V1(C)A 7.78 8.65 9.55 1 13.4 112 50 1V5KE10(C)A 8.55 9.50 10.5 1 14.5 103 10 1V5KE11(C)A 9.40 10.5 11.6 1 15.6 96.2 5 1V5KE12(C)A 10.2 11.4 12.6 1 16.7 90.0 5 1V5KE13(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1V5KE13(C)A 12.8 14.3 15.8 1 21.2 71.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE16(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE2Q(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE2Q(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE2Q(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE3Q(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE3Q(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE3Q(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE3Q(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE4SQ(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1V5KE5(C)A 43.6 48.5 53.6 1 77.0 19.5 5 1V5KE5(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1V5KE5(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE5(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE5(C)A 77.8 86.5 95.5 1 125.0 9.9 5 1V5KE5(C)A 77.8 86.5 95.5 1 125.0 9.9 5 1V5KE10(C)A 12.0 114.0 126.0 1 165.0 9.9 5 1V5KE130(C)A 12.0 114.0 126.0 1 165.0 9.9 5 1V5KE150(C)A 12.0 143.0 158.0 1 207.0 7.2 5	1V5KE6V8(C)A	5.80	6.45	7.14	10	10.5	143	1000
1V5KE9V1(C)A 7.78 8.66 9.55 1 13.4 112 50 1V5KE10(C)A 8.55 9.50 10.5 1 14.5 103 10 1V5KE11(C)A 9.40 10.5 11.6 1 15.6 96.2 5 1V5KE12(C)A 10.2 11.4 12.6 1 16.7 90.0 5 1V5KE13(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1V5KE15(C)A 12.8 14.3 15.8 1 21.2 71.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE18(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE27(C)A 23.1 25.7 28.4 1 37.5 1 41.4 36.2 5 1V5KE30(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE30(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE30(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE43(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE5(C)A 43.6 48.5 53.6 1 77.0 19.5 5 1V5KE62(C)A 43.6 48.5 53.6 1 77.0 19.5 5 1V5KE62(C)A 43.6 48.5 53.6 1 77.0 19.5 5 1V5KE62(C)A 58.1 64.6 71.4 1 99.0 16.3 5 1V5KE62(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1V5KE62(C)A 47.8 53.2 58.8 1 104.0 14.6 5 1V5KE61(C)A 77.8 86.5 95.5 1 125.0 9.9 5 1V5KE61(C)A 77.8 86.5 95.5 1 125.0 9.9 5 1V5KE61(C)A 94.0 11.0 11.0 12.0 11.0 1 152.0 9.9 5 1V5KE10(C)A 11.0 12.0 114.0 126.0 1 156.0 9.1 5 1V5KE130(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE7V5(C)A	6.40	7.13	7.88	10	11.3	133	500
1V5KE10(C)A 8.55 9.50 10.5 1 14.5 103 10 1V5KE11(C)A 9.40 10.5 11.6 1 15.6 96.2 5 1V5KE12(C)A 10.2 11.4 12.6 1 16.7 90.0 5 1V5KE13(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1V5KE16(C)A 12.8 14.3 15.8 1 21.2 71.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE18(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE20(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE2(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE2(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE30(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE3(C)A 30.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE5(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1V5KE6(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE9(C)A 77.8 86.5 95.5 1 125.0 9.9 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 9.9 5 1V5KE910(C)A 94.0 116.0 1 152.0 9.9 5 1V5KE10(C)A 120.0 114.0 126.0 1 150.0 9.1 5 1V5KE10(C)A 120.0 114.0 126.0 1 165.0 9.1 5 1V5KE150(C)A 120.0 114.0 126.0 1 165.0 9.1 5 1V5KE150(C)A 120.0 114.0 126.0 1 165.0 9.1 5	1V5KE8V2(C)A	7.02	7.79	8.61	10	12.1	124	200
1V5KE11(C)A 9.40 10.5 11.6 1 15.6 96.2 5 1V5KE12(C)A 10.2 11.4 12.6 1 16.7 90.0 5 1V5KE13(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1V5KE15(C)A 12.8 14.3 15.8 1 21.2 71.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE18(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE20(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE22(C)A 23.1 25.7 28.4 1 33.2 45.2 5 1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE30(C)A 26.0 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE3(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE3(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE6(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE9(C)A 77.8 86.5 95.0 105.0 1 137.0 11.0 5 1V5KE10(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE10(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE10(C)A 10.2 11.0 12.0 11.0 150.0 9.1 5 1V5KE10(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE10(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE10(C)A 10.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 10.2 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE9V1(C)A	7.78	8.65	9.55	1	13.4	112	50
1V5KE12(C)A 10.2 11.4 12.6 1 16.7 90.0 5 1V5KE13(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1V5KE15(C)A 12.8 14.3 15.8 1 21.2 71.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE18(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE22(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE30(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE33(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE33(C)A 30.8 34.2	1V5KE10(C)A	8.55	9.50	10.5	1	14.5	103	10
1V5KE13(C)A 11.1 12.4 13.7 1 18.2 82.0 5 1V5KE15(C)A 12.8 14.3 15.8 1 21.2 71.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE18(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE27(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE36(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE36(C)A 30.8 34.2	1V5KE11(C)A	9.40	10.5	11.6	1	15.6	96.2	5
1V5KE15(C)A 12.8 14.3 15.8 1 21.2 71.0 5 1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE18(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE22(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE22(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE27(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE33(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE36(C)A 30.8 34.2	1V5KE12(C)A	10.2	11.4	12.6	1	16.7	90.0	5
1V5KE16(C)A 13.6 15.2 16.8 1 22.5 67.0 5 1V5KE18(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE22(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE27(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE30(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE30(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1V5KE62(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE62(C)A 58.5 95.0 105.0 1 137.0 11.0 5 1V5KE31C(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE10(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 112.0 143.0 158.0 1 207.0 7.2 5	1V5KE13(C)A	11.1	12.4	13.7	1	18.2	82.0	5
1V5KE18(C)A 15.3 17.1 18.9 1 26.2 59.5 5 1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE22(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE27(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE30(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE30(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE39(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE3(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE9(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE10(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE10(C)A 102.0 114.0 126.0 1 179.0 8.4 5 1V5KE10(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE10(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE15(C)A	12.8	14.3	15.8	1	21.2	71.0	5
1V5KE20(C)A 17.1 19.0 21.0 1 27.7 54.2 5 1V5KE22(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE27(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE33(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE36(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5	1V5KE16(C)A	13.6	15.2	16.8	1	22.5	67.0	5
1V5KE22(C)A 18.8 20.9 23.1 1 30.6 49.0 5 1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE27(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE33(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE33(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE39(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 77.0 19.5 5 1V5KE62(C)A 53.0 58.9	1V5KE18(C)A	15.3	17.1	18.9	1	26.2	59.5	5
1V5KE24(C)A 20.5 22.8 25.2 1 33.2 45.2 5 1V5KE27(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE33(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE36(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE39(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2	1V5KE20(C)A	17.1	19.0	21.0	1	27.7	54.2	5
1V5KE27(C)A 23.1 25.7 28.4 1 37.5 40.0 5 1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE33(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE36(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1V5KE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6	1V5KE22(C)A	18.8	20.9	23.1	1	30.6	49.0	5
1V5KE30(C)A 25.6 28.5 31.5 1 41.4 36.2 5 1V5KE33(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE36(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1VK662(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3	1V5KE24(C)A	20.5	22.8	25.2	1	33.2	45.2	5
1V5KE33(C)A 28.2 31.4 34.7 1 45.7 33.0 5 1V5KE36(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1V5KE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5<	1V5KE27(C)A	23.1	25.7	28.4	1	37.5	40.0	5
1V5KE36(C)A 30.8 34.2 37.8 1 49.9 30.1 5 1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1VKE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5	1V5KE30(C)A	25.6	28.5	31.5	1	41.4	36.2	5
1V5KE39(C)A 33.3 37.1 41.0 1 53.9 28.0 5 1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1VKE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE130(C)A 11	1V5KE33(C)A	28.2	31.4	34.7	1	45.7	33.0	5
1V5KE43(C)A 36.8 40.9 45.2 1 59.3 25.3 5 1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1VKE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A <t< td=""><td>1V5KE36(C)A</td><td>30.8</td><td>34.2</td><td>37.8</td><td>1</td><td>49.9</td><td>30.1</td><td>5</td></t<>	1V5KE36(C)A	30.8	34.2	37.8	1	49.9	30.1	5
1V5KE47(C)A 40.2 44.7 49.4 1 64.8 23.2 5 1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1VKE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A	1V5KE39(C)A	33.3	37.1	41.0	1	53.9	28.0	5
1V5KE51(C)A 43.6 48.5 53.6 1 70.1 21.4 5 1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1VKE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A	1V5KE43(C)A	36.8	40.9	45.2	1	59.3	25.3	5
1V5KE56(C)A 47.8 53.2 58.8 1 77.0 19.5 5 1VKE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE47(C)A	40.2	44.7	49.4	1	64.8	23.2	5
1VKE62(C)A 53.0 58.9 65.1 1 85.0 17.7 5 1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE51(C)A	43.6	48.5	53.6	1	70.1	21.4	5
1V5KE68(C)A 58.1 64.6 71.4 1 92.0 16.3 5 1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE56(C)A	47.8	53.2	58.8	1	77.0	19.5	5
1V5KE75(C)A 64.1 71.3 78.8 1 104.0 14.6 5 1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1VKE62(C)A	53.0	58.9	65.1	1	85.0	17.7	5
1V5KE82(C)A 70.1 77.9 86.1 1 113.0 13.3 5 1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE68(C)A	58.1	64.6	71.4	1	92.0	16.3	5
1V5KE91(C)A 77.8 86.5 95.5 1 125.0 12.0 5 1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE75(C)A	64.1	71.3	78.8	1	104.0	14.6	5
1V5KE100(C)A 85.5 95.0 105.0 1 137.0 11.0 5 1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE82(C)A	70.1	77.9	86.1	1	113.0	13.3	5
1V5KE110(C)A 94.0 106.0 116.0 1 152.0 9.9 5 1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE91(C)A	77.8	86.5	95.5	1	125.0	12.0	5
1V5KE120(C)A 102.0 114.0 126.0 1 165.0 9.1 5 1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE100(C)A	85.5	95.0	105.0	1	137.0	11.0	5
1V5KE130(C)A 111.0 124.0 137.0 1 179.0 8.4 5 1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE110(C)A	94.0	106.0	116.0	1	152.0	9.9	5
1V5KE150(C)A 128.0 143.0 158.0 1 207.0 7.2 5	1V5KE120(C)A	102.0	114.0	126.0	1	165.0	9.1	5
· · · · · · · · · · · · · · · · · · ·	1V5KE130(C)A	111.0	124.0	137.0	1	179.0	8.4	5
1V5KE160(C)A 136.0 152.0 168.0 1 219.0 6.8 5	1V5KE150(C)A	128.0	143.0	158.0	1	207.0	7.2	5
	1V5KE160(C)A	136.0	152.0	168.0	1	219.0	6.8	5

Electrical Characteristics (Continued)

 $T_A = 25$ °C unless otherwise noted.

Uni-directional Bi-directional (C) Device	Reverse Stand-Off Voltage	Breakdown Voltage V _{BR} (V)		Test Current	Clamping Voltage at I _{PPM}	Peak Pulse Current	Reverse Leakage at
Device	V _{RWM} (V)	Min.	Max.	I _T (mA)	V _C (V)	I _{PPM} (A)	I ^R (μ A) ⁽²⁾
1V5KE170(C)A	145.0	162.0	179.0	1	234.0	6.4	5
1V5KE180(C)A	154.0	171.0	189.0	1	246.0	6.1	5
1V5KE200(C)A	171.0	190.0	210.0	1	274.0	5.5	5
1V5KE220(C)A	185.0	209.0	231.0	1	328.0	4.6	5
1V5KE250(C)A	214.0	237.0	263.0	1	344.0	4.5	5
1V5KE300(C)A	256.0	285.0	315.0	1	414.0	3.8	5
1V5KE350(C)A	300.0	333.0	368.0	1	482.0	3.2	5
1V5KE400(C)A	342.0	380.0	420.0	1	548.0	2.8	5
1V5KE440(C)A	376.0	418.0	462.0	1	602.0	2.6	5

Note:

2.For bi-directional parts with $\rm V_{RWM}$ < 10 V, the $\rm I_{R}$ maximum limit is doubled.

Typical Performance Characteristics

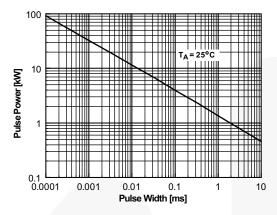


Figure 1. Peak Pulse Power Rating Curve

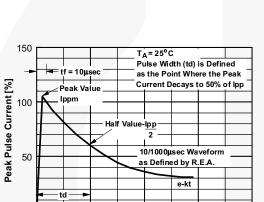


Figure 3. Pulse Waveform

Time [ms]

3

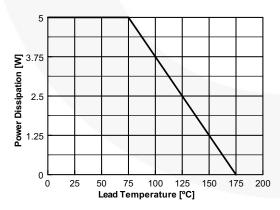


Figure 5. Steady State Power Derating Curve

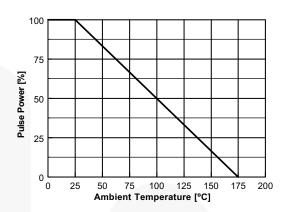


Figure 2. Pulse Derating Curve

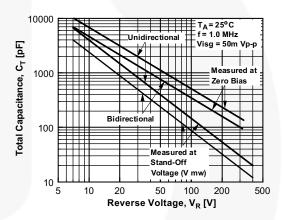


Figure 4. Total Capacitance

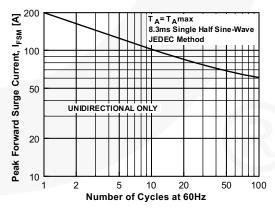


Figure 6. Non-Repetitive Surge Current

0

Physical Dimension 25.40 MIN (2X)



Ø 1.07 0.94

NOTES: UNLESS OTHERWISE SPECIFIED

- A) PACKAGE STANDARD REFERENCE:
 JEDEC DO-201 VARIATION AE.
 B) PLASTIC PACKAGE BODY.
 C) ALL DIMENSIONS ARE IN MILLIMETERS.
 D) DRAWING FILE NAME: DO201AREV1

Figure 7. AXIAL LEADED, JEDEC DO201AE

9.50 7.20





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Counterfeiting of semiconductor parts is a growing problem in the industry. All manufacturers of semiconductor products are experiencing counterfeiting of their parts. Customers who inadvertently purchase counterfeit parts experience many problems such as loss of brand reputation, substandard performance, failed applications, and increased cost of production and manufacturing delays. Fairchild is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. Fairchild strongly encourages customers to purchase Fairchild parts either directly from Fairchild or from Authorized Fairchild Distributors who are listed by country on our web page cited above. Products customers buy either from Fairchild directly or from Authorized Fairchild Distributors are genuine parts, have full traceability, meet Fairchild's quality standards for handling and storage and provide access to Fairchild's full range of up-to-date technical and product information. Fairchild and our Authorized Distributors will stand behind all warranties and will appropriately address any warranty issues that may arise. Fairchild will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. Fairchild is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

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Definition of Terms

Datasheet Identification	Product Status	Definition				
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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.				
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.				
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.				

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