



Micro Commercial Components



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AK1-076C THRU AK15-076C

Features

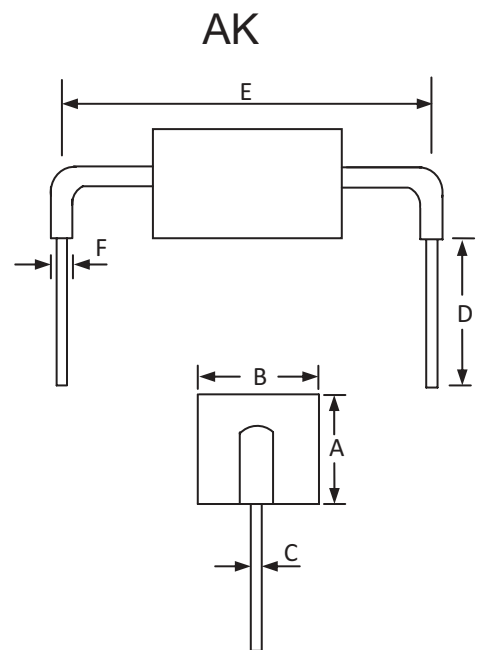
- Axial Lead Terminals
- High Current Transient Suppressor
- Excellent Clamping Capability
- Glass Passivated Junction
- Bi-directional
- Low Slope Resistance
- Repetition Rate(duty cycle):0.01%
- Halogen Free
- High Temperature Soldering:260°C/10 Seconds at Terminals
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensivity Level 1

AK Series TVS Diodes 58-430 Volts

Maximum Ratings And Thermal Characteristics

| Parameter | Symbol | Value | Unit | |
|--|------------------------------------|------------|------|-------|
| Current Rating,Rated IPP Measured With 8/20us Pulse | I _{pp} | AK1 | 1 | KAmps |
| | | AK3 | 3 | |
| | | AK6 | 6 | |
| | | AK10 | 10 | |
| | | AK15 | 15 | |
| Operating Junction and Storage Temperature Range | T _J T _{STG} | -55 to+150 | °C | |

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | --- | .630 | --- | 16.00 | |
| B | --- | .709 | --- | 18.00 | |
| C | .047 | .052 | 1.20 | 1.32 | |
| D | .197 | --- | 5.00 | --- | |
| E | .922 | .979 | 23.43 | 24.87 | |
| F | --- | .157 | --- | 4.00 | |

Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| Part Number | Reverse Stand-Off Voltage | | Breakdown Voltage | Test Current | Surge Current Rating | Maximum Clamping Voltage | Reverse Leakage |
|-------------|---------------------------|--------|-------------------|--------------|----------------------|--------------------------|-----------------|
| | VAC(V) | VDC(V) | VBR(V) MIN.@IT | IT(mA) | 8/20us (KA) | VC(V) @IPP | IR(uA) @VDC |
| AK1-076C | 54 | 76 | 83 | 10 | 1 | 135 | 20 |
| AK3-058C | 40 | 58 | 64 | 10 | 3 | 110 | 20 |
| AK3-066C | 45 | 66 | 70 | 10 | 3 | 125 | 20 |
| AK3-076C | 54 | 76 | 85 | 10 | 3 | 140 | 20 |
| AK3-380C | 275 | 380 | 401 | 10 | 3 | 520 | 20 |
| AK3-430C | 310 | 430 | 440 | 10 | 3 | 625 | 20 |
| AK6-058C | 40 | 58 | 64 | 10 | 6 | 110 | 20 |
| AK6-066C | 45 | 66 | 70 | 10 | 6 | 125 | 20 |
| AK6-076C | 54 | 76 | 83 | 10 | 6 | 135 | 20 |
| AK6-170C | 130 | 170 | 180 | 10 | 6 | 260 | 20 |
| AK6-190C | 145 | 190 | 200 | 10 | 6 | 290 | 20 |
| AK6-240C | 180 | 240 | 250 | 10 | 6 | 340 | 20 |
| AK6-380C | 275 | 380 | 401 | 10 | 6 | 520 | 20 |
| AK6-430C | 310 | 430 | 440 | 10 | 6 | 625 | 20 |
| AK10-058C | 40 | 58 | 64 | 10 | 10 | 110 | 20 |
| AK10-066C | 45 | 66 | 70 | 10 | 10 | 125 | 20 |
| AK10-076C | 54 | 76 | 83 | 10 | 10 | 135 | 20 |
| AK10-170C | 130 | 170 | 180 | 10 | 10 | 260 | 20 |
| AK10-190C | 145 | 190 | 200 | 10 | 10 | 290 | 20 |
| AK10-200C | 150 | 200 | 222 | 10 | 10 | 330 | 20 |
| AK10-240C | 180 | 240 | 250 | 10 | 10 | 340 | 20 |
| AK10-380C | 275 | 380 | 401 | 10 | 10 | 520 | 20 |
| AK10-430C | 310 | 430 | 440 | 10 | 10 | 625 | 20 |
| AK15-058C | 40 | 58 | 64 | 10 | 15 | 110 | 20 |
| AK15-076C | 54 | 76 | 85 | 10 | 15 | 145 | 20 |

Ratings and Characteristics Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

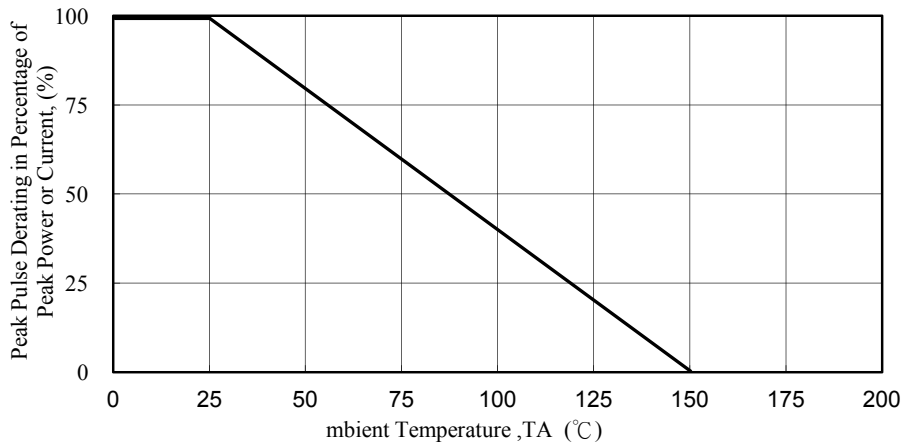


Fig. 1 - Pulse Derating Curve



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Ordering Information

| | |
|------------------|-----------------|
| Device | Packing |
| (Part Number)-BP | Bulk:150pcs/Box |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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