

Features

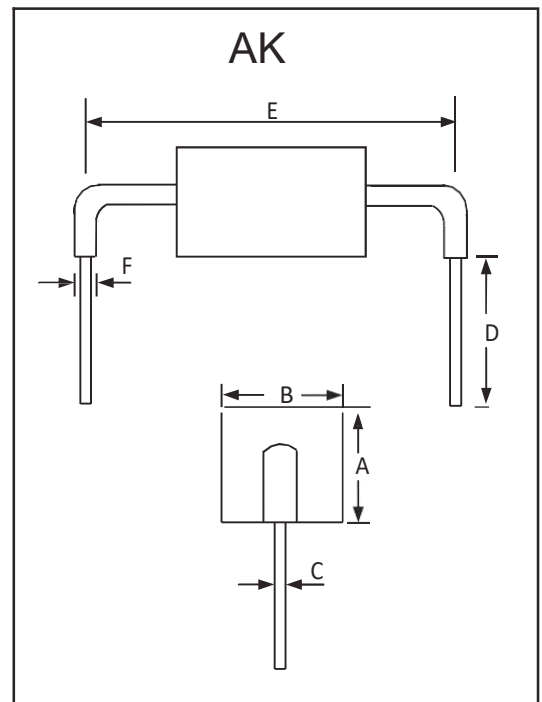
- Axial Lead Terminals
- High Current Transient Suppressor
- Excellent Clamping Capability
- Glass Passivated Junction
- Bi-directional
- Low Slope Resistance
- Repetition Rate(duty cycle):0.01%
- Halogen Free
- High Temperature Soldering:260°C/10 Seconds at Terminals
- Lead Free Finish/Rohs Compliant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



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



DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | --- | .630 | --- | 16.00 | |
| B | --- | .500 | --- | 12.70 | |
| C | .047 | .052 | 1.20 | 1.32 | |
| D | .197 | --- | 5.00 | --- | |
| E | .922 | .979 | 23.43 | 24.87 | |
| F | --- | .098 | --- | 2.50 | |

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

| Part Number | Reverse Stand-Off Voltage | Breakdown Voltage @IT | | Test Current | Maximum Clamping Voltage @IPP (V) | Maximum Peak Pulse Current | Maximum Reverse Leakage @VRWM |
|-------------|---------------------------|-----------------------|------------|--------------|-----------------------------------|----------------------------|-------------------------------|
| | VRWM (V) | VBR MIN(V) | VBR MAX(V) | IT (mA) | VC(V) | 8/20us (KA) | IR(μA) |
| AK1-076C | 76 | 85 | 95 | 10 | 140 | 1 | 20 |
| AK3-015C | 15 | 16 | 19 | 10 | 28 | 3 | 20 |
| AK3-030C | 30 | 32 | 37 | 10 | 90 | 3 | 20 |
| AK3-058C | 58 | 64 | 70 | 10 | 110 | 3 | 20 |
| AK3-066C | 66 | 72 | 80 | 10 | 120 | 3 | 20 |
| AK3-076C | 76 | 85 | 95 | 10 | 140 | 3 | 20 |
| AK3-150C | 150 | 158 | 194 | 10 | 230 | 3 | 20 |
| AK3-170C | 170 | 179 | 220 | 10 | 260 | 3 | 20 |
| AK3-208C | 208 | 223 | 246 | 10 | 262 | 3 | 20 |
| AK3-380C | 380 | 401 | 443 | 10 | 520 | 3 | 20 |
| AK3-430C | 430 | 440 | 490 | 10 | 625 | 3 | 20 |
| AK6-030C | 30 | 32 | 37 | 10 | 90 | 6 | 20 |
| AK6-058C | 58 | 64 | 70 | 10 | 110 | 6 | 20 |
| AK6-066C | 66 | 72 | 80 | 10 | 120 | 6 | 20 |
| AK6-076C | 76 | 85 | 95 | 10 | 140 | 6 | 20 |
| AK6-170C | 170 | 180 | 220 | 10 | 260 | 6 | 20 |
| AK6-190C | 190 | 200 | 245 | 10 | 290 | 6 | 20 |
| AK6-240C | 240 | 250 | 285 | 10 | 340 | 6 | 20 |
| AK6-380C | 380 | 401 | 443 | 10 | 520 | 6 | 20 |
| AK6-430C | 430 | 440 | 490 | 10 | 625 | 6 | 20 |
| AK10-015C | 15 | 16 | 19 | 10 | 28 | 10 | 20 |
| AK10-030C | 30 | 32 | 37 | 10 | 58 | 10 | 20 |
| AK10-058C | 58 | 64 | 70 | 10 | 110 | 10 | 20 |
| AK10-066C | 66 | 72 | 80 | 10 | 120 | 10 | 20 |
| AK10-076C | 76 | 85 | 95 | 10 | 140 | 10 | 20 |

| | | | | | | | |
|-----------|-----|-----|-----|----|-----|----|----|
| AK10-170C | 170 | 180 | 220 | 10 | 260 | 10 | 20 |
| AK10-190C | 190 | 200 | 245 | 10 | 290 | 10 | 20 |
| AK10-240C | 240 | 250 | 285 | 10 | 340 | 10 | 20 |
| AK10-270C | 270 | 282 | 315 | 10 | 410 | 10 | 2 |
| AK10-380C | 380 | 401 | 443 | 10 | 520 | 10 | 20 |
| AK10-430C | 430 | 440 | 490 | 10 | 625 | 10 | 20 |
| AK10-530C | 530 | 560 | 619 | 10 | 750 | 10 | 20 |
| AK15-58C | 58 | 64 | 70 | 10 | 110 | 15 | 20 |
| AK15-066C | 66 | 72 | 80 | 10 | 120 | 15 | 20 |
| AK15-076C | 78 | 85 | 95 | 10 | 150 | 15 | 20 |