

Type ST 55 °C Strobe-Flash, Long-Life, 360 & 450 V Aluminum



High Energy, Long-Life

Rugged Type ST capacitors can withstand more than 30 million full discharges in typical strobe-lamp applications—that's more than ten years' operation in emergency vehicles. This exceptional life capability is also available in screw-terminal and other case styles and other capacitance values.

The ST's magic is its ability to handle the spectrum of currents caused by full discharge at 1 Hz and faster rates. Because discharge energy is at frequencies from less than a hertz to thousands of hertz, power loss and heating are not predicted by the ESR at 120 Hz, and the open-structure anode foil of Type ST excels at low loss over the full spectrum.

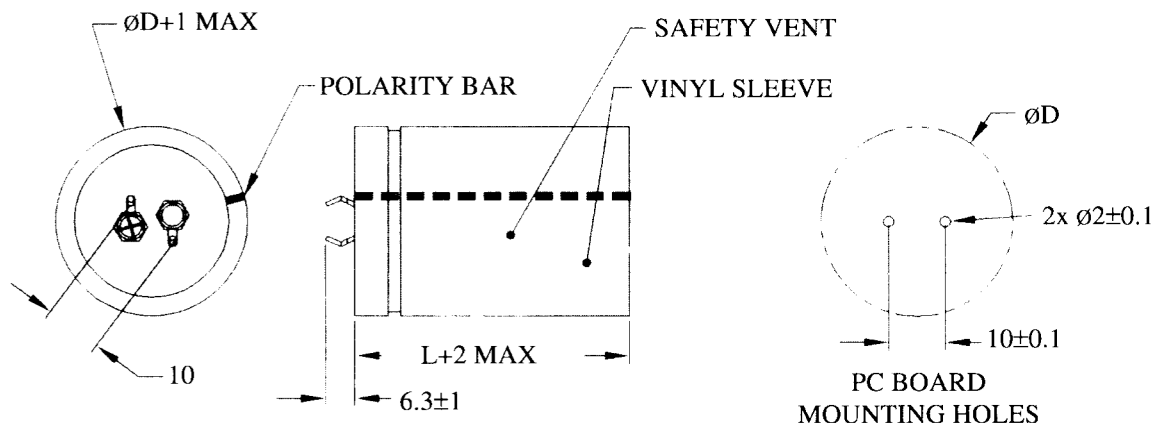
Highlights

- Tested to More than 10 Million Flashes
- More than 30 Million Flashes Typical Life
- Snapmount or Solder-Lug Terminals

Specifications

| | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature: | -40 °C to +55 °C |
| Rated Voltage: | 360 or 450 Vdc |
| Capacitance: | 30 to 300 μF -10% +20% |
| Leakage Current: | 0.01 CV +20 μA at 25 °C |
| Cold Impedance: | -20 °C multiplier of 25 °C $Z \leq 2$ |
| Dissipation Factor: | 7% maximum @ 25 °C & 120 Hz |
| Discharge Life: | 10 million discharges at 1 s interval, xenon flash tube 0.7 to 1Ω Δ capacitance ±10%, ESR 150% of limit, DCL 150% of limit |
| Shelf Life: | 500 h @ +55 °C, Δ capacitance ±10% ESR 150% of limit, DCL 150% of limit |
| Vibration: | 10 to 55 Hz; 0.06" and 10 g max, 6 h vertical, 2 h each, 2 other planes |

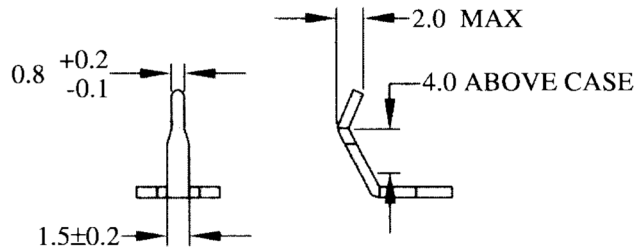
Outline Drawings



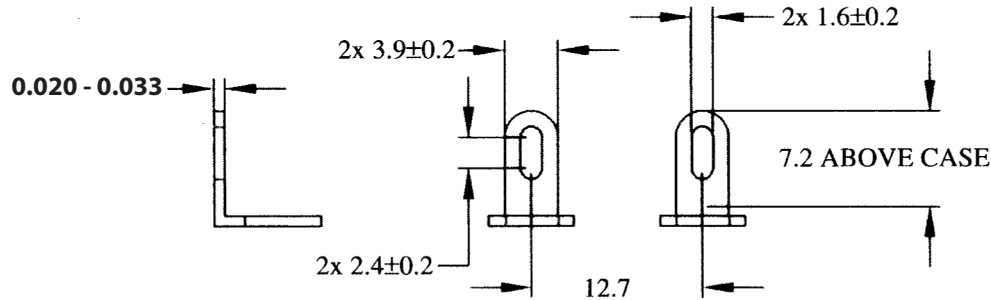
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Terminal Drawings

Snap-In Terminals



Solder-Lug Terminals



Case Dimensions

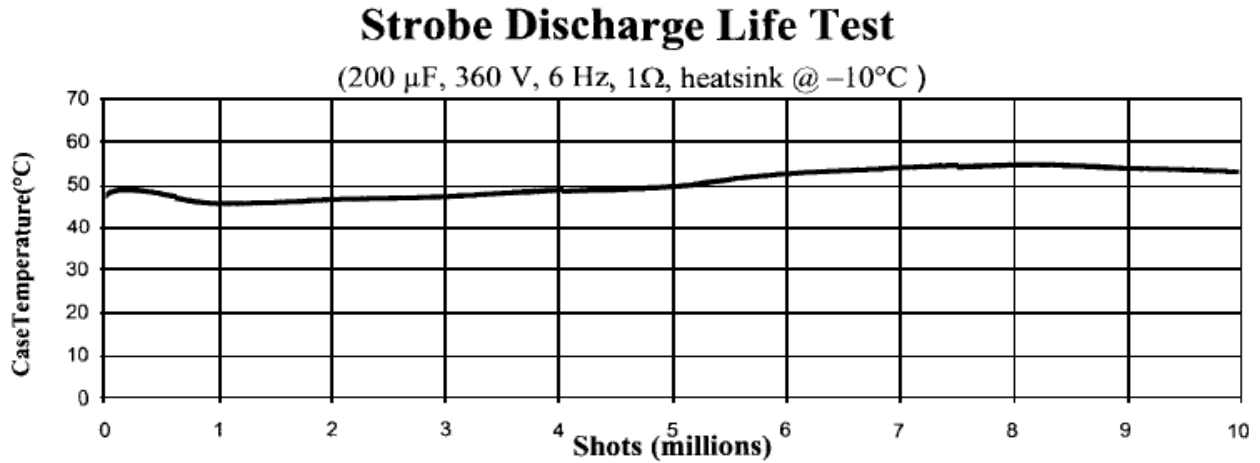
| Case Code | Diam.(D) Max. | | Length (L) Max. | | Terminal Spacing (S) | | Typical Weight |
|-----------|------------------|--------|--------------------|--------|----------------------|--------|----------------|
| | mm | Inches | mm | Inches | mm | Inches | |
| H04 | 22 | 0.87 | 40 | 1.57 | 8.5 | 0.33 | 24 |
| J01 | 25 | 0.98 | 25 | 0.98 | 10.0 | 0.39 | 20 |
| J02 | 25 | 0.98 | 30 | 1.18 | 10.0 | 0.39 | 24 |
| J03 | 25 | 0.98 | 35 | 1.38 | 10.0 | 0.39 | 27 |
| J04 | 25 | 0.98 | 40 | 1.57 | 10.0 | 0.39 | 31 |
| J05 | 25 | 0.98 | 50 | 1.97 | 10.0 | 0.39 | 38 |
| K03 | 30 | 1.18 | 35 | 1.38 | 12.7 | 0.50 | 40 |
| K04 | 30 | 1.18 | 40 | 1.57 | 12.7 | 0.50 | 44 |
| K05 | 30 | 1.18 | 50 | 1.97 | 12.7 | 0.50 | 53 |
| A05 | 35 | 1.38 | 50 | 1.97 | 12.7 | 0.50 | 67 |
| A06 | 35 | 1.38 | 63 | 2.48 | 12.7 | 0.50 | 88 |

Part Numbering System

| | | | | | | |
|-------------|-----------------------------|------------------|----------------------|------------------|-------------------|------------------------------------|
| ST | 121 | V | 360 | J05 | 2 | L |
| | | | | | | |
| Type | Capacitance | Tolerance | Rated Voltage | Case Code | Insulation | Terminals |
| | 300 = 30 µF 121 = 120 µF | -10 + 20% | | | 2 = PVC | blank = snap-in L = solder lugs |

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Typical Performance Curves



Ratings

RoHS Compliant

| Cap. (μ F) | Catalog Part Number | ESR Max. Ω | | Diameter | | Length | |
|--------------------------------|------------------------|-------------------|--|----------|------|--------|------|
| | | +25 °C 120 Hz | | (mm) | (in) | (mm) | (in) |
| 360 Vdc (390 Vdc Surge) | | | | | | | |
| 48 | ST480V360J012 | 1.92 | | 25 | 0.98 | 25 | 0.98 |
| 60 | ST600V360J022 | 1.54 | | 25 | 0.98 | 30 | 1.18 |
| 80 | ST800V360J032 | 1.15 | | 25 | 0.98 | 35 | 1.38 |
| 100 | ST101V360J042 | 0.92 | | 25 | 0.98 | 40 | 1.57 |
| 120 | ST121V360K032 | 0.77 | | 30 | 1.18 | 35 | 1.38 |
| 150 | ST151V360J052 | 0.61 | | 25 | 0.98 | 50 | 1.97 |
| 200 | ST201V360K052 | 0.46 | | 30 | 1.18 | 50 | 1.97 |
| 250 | ST251V360A052 | 0.37 | | 35 | 1.38 | 50 | 1.97 |
| 300 | ST301V360A062 | 0.31 | | 35 | 1.38 | 63 | 2.48 |
| 450 Vdc (500 Vdc Surge) | | | | | | | |
| 30 | ST300V450J012 | 3.07 | | 25 | 0.98 | 25 | 0.98 |
| 40 | ST400V450H042 | 2.30 | | 22 | 0.87 | 40 | 1.57 |
| 50 | ST500V450J032 | 1.84 | | 25 | 0.98 | 35 | 1.38 |
| 60 | ST600V450J042 | 1.54 | | 25 | 0.98 | 40 | 1.57 |
| 80 | ST800V450J052 | 1.15 | | 25 | 0.98 | 50 | 1.97 |
| 100 | ST101V450K042 | 1.08 | | 30 | 1.18 | 40 | 1.57 |
| 120 | ST121V450K052 | 0.77 | | 30 | 1.18 | 50 | 1.97 |
| 150 | ST151V450A052 | 0.61 | | 35 | 1.38 | 50 | 1.97 |

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