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.

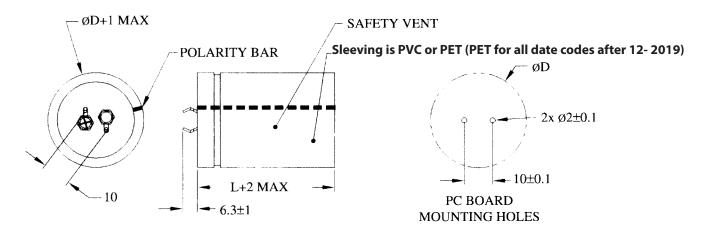
Highlights

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

Specifications

•					
Temperature Range	−40 °C to +55 °C				
Rated Voltage Range	360 or 450 Vdc				
Capacitance Range	30 to 300 μF –10% +20%				
Cold Impedance	–20 °C multiplier of 25 °C Z ≤ 2				
Leakage Current	0.01 CV +20 μA at 25 °C				
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 $\pm 10\%$, 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				
Ro	HS Compliant				

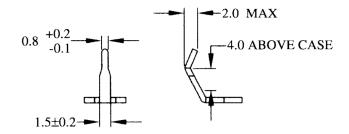
Outline Drawings



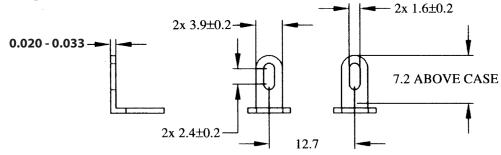
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Terminal Drawings

Snap-In Terminals



Solder-Lug Terminals



Case Dimensions

	Dia	m.(D)	Length (L)		Terminal		
Case	Max.		Max.		Spacing (S)		Typical
Code	mm	Inches	mm	Inches	mm	Inches	Weight
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

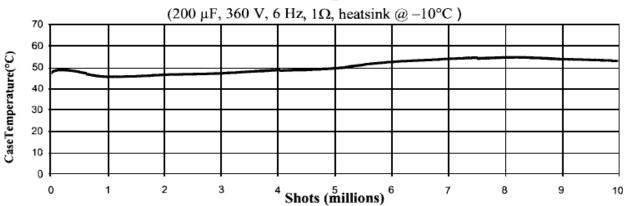
Part Numbering System



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Typical Performance Curves





Ratings

		ESR Max. Ω							
Cap.	Catalog	+25 °C	Diameter		Length				
(μ F)	Part Number	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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