## FEATURES
High Pulse Currents - High voltage

## APPLICATIONS
- Power Semiconductor Circuits
- SCR Commutation
- Ballasts Controls
- Switching Power Supplies

### Operating Temperature Range
-55°C to +105°C

### Capacitance Tolerance
- ±10% at 1 kHz, 25°C
- ±5% optional

### AC voltage (50/60 Hz)
- WVDC | 630 | 1000 | 1600 | 2000
- VAC | 400 | 630 | 650 | 700
- DC: For T> +85°C, the voltage must be decreased by 1.5% per °C
- AC: For T> +75°C, the voltage must be decreased by 1.75% per °C

### Dissipation Factor (MAX) 25°C
- Frequency (kHz) | C<0.1μF | 0.1μF<C≤1μF | C>1μF
- 1 | 0.04% | 0.04% | 0.05%
- 10 | 0.05% | 0.06% | -
- 100 | 0.16% | - | -

### Insulation Resistance
- @25°C (<70% RH) for 1 minute at 100VDC applied
- Capacitance | Insulation Resistance
- ≤0.33μF | 100000 MΩ
- >0.33μF | 30000 MΩμF

### Self Inductance
- <1 nano-Henry per mm of lead spacing

### Capacitance Drift Factor
- 2000 Hours, +85°C with 125% of rated voltage
- Load Life

### Insulation Resistance
- 1 FIT = 1 failure / 1 billion component hours
- Reliability (0.5xRated Voltage, 40°C)

### Damp Heat test
- 56 days at 40°C with 90 to 95% RH, +40°C and no voltage applied
- Capacitance Drift Factor

### Capacitance Change
- ≤5% of initially measured value
- ≤0.001 at 10kHz and 25°C for C≤1μF
- ≤0.005 at 1kHz and 25°C for C>1μF

### Dissipation Factor
- ≤200% of initially specified value
- ≤0.005 at 1kHz and 25°C

### Insulation Resistance
- >50% of maximum specified value

### Dielectric Strength - Terminal to Terminal
- Dielectric
- Polypropylene
- Construction
- Metallized film
- Coating
- Flame Retardant plastic box (UL 94V-1) with epoxy resin fill (UL94V0)
- Leads
- Lead free tinned copper leads
Permissible (sinusoidal) AC voltage versus frequency for a temperature rise of 10°C
Not for across the line applications
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<th>Capacitance (µF)</th>
<th>IC PART NUMBER</th>
<th>dv/dt (v/µ sec.)</th>
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