



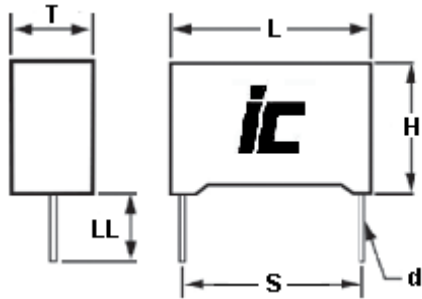
#### FEATURES

High Pulse Currents - High voltage

#### APPLICATIONS

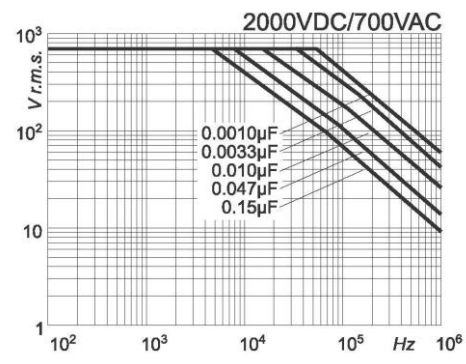
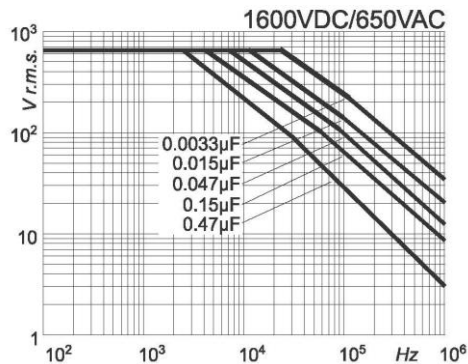
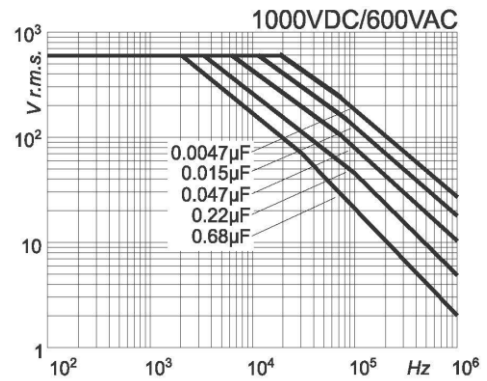
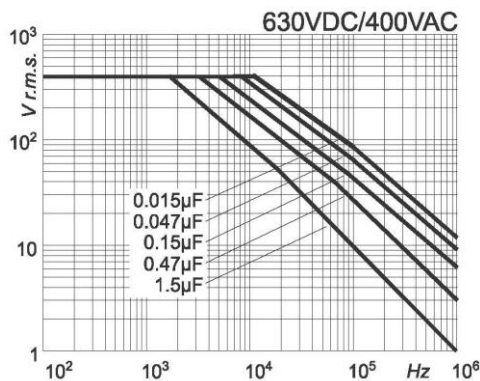
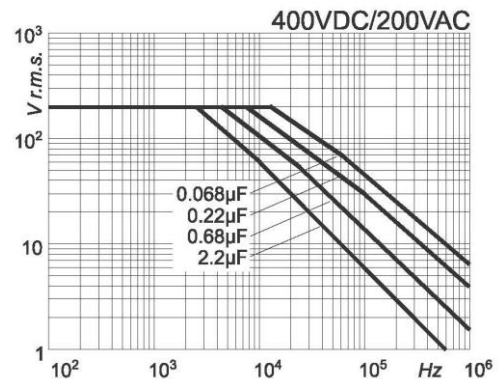
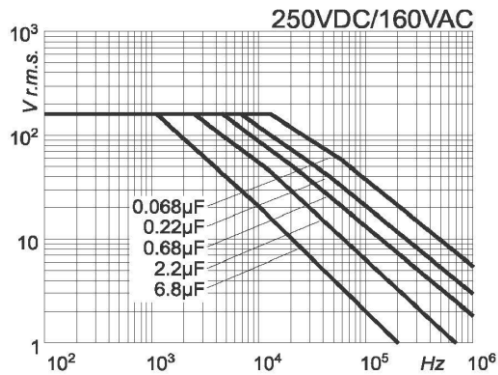
Power Semiconductor Circuits - SCR Commutation  
Ballast controls - Switching Power Supplies

|   |  |         |     |  |      |       |      |
|---|--|---------|-----|--|------|-------|------|
| Operating Temperature Range   | <b>-55°C to +105°C</b>   |         |     |  |      |       |      |
| Capacitance Tolerance   | ±10% at 1 kHz, 25°C<br>+5% optional                            |         |     |  |      |       |      |
| AC voltage (50/60 Hz)   | WVDC   | 250     | 400 | 630  | 1000 | 1600  | 2000 |
|   | VAC  | 160     | 200 | 400  | 630  | 650   | 700  |
| For T>+85°C, The voltage (DC/AC) must be decreased by (1.5/2.25)% per °C                    |  |         |     |  |      |       |      |
| Dissipation Factor (MAX)<br>25°C  | Frequency (kHz)  | C<0.1uF |     | 0.1uF<C<1uF  |      | C>1uF |      |
|   | 1  | 0.05%   |     | 0.04%  |      | 0.05% |      |
|   | 10   | 0.05%   |     | 0.06%  |      | -     |      |
| Insulation Resistance<br>@25°C (<70% RH) for 1 minute at<br>100VDC applied                  | Capacitance  |         |     | Insulation Resistance  |      |       |      |
|   | ≤0.33µF  |         |     | 100000 MΩ  |      |       |      |
|   | >0.33µF  |         |     | 30000 MΩxµF  |      |       |      |
| Self Inductance   | <1 nano-Henry per mm of lead spacing                           |         |     |  |      |       |      |
| Capacitance Drift Factor  | <0.5% after 2 years at 40°C                                    |         |     |  |      |       |      |
| Load Life   | <b>2000 Hours, +85°C with 125% of rated voltage</b>            |         |     |  |      |       |      |
|   | Capacitance Change   |         |     | <1% of initially measured value  |      |       |      |
|   | Dissipation Factor   |         |     | ≤0.001 at 10kHz and 25°C for C≤1uF<br>≤0.001 at 1kHz and 25°C for C>1uF    |      |       |      |
| Reliability<br>(0.5xRated Voltage,<br>40°C)<br>1 FIT=1 failure/1 billion<br>component hours | 2 Fit, VDC≤400 WVDC<br>1 Fit, VDC>400 WVDC                     |         |     |  |      |       |      |
|   | Capacitance Change   |         |     | <10% of initially measured value   |      |       |      |
|   | Dissipation Factor   |         |     | <200% of initially specified value   |      |       |      |
| Damp Heat test  | 56 days at 40°C with 90 to 95%RH, +40°C and no voltage applied |         |     |  |      |       |      |
|   | Capacitance Change   |         |     | ≤5% of initially measured value  |      |       |      |
|   | Dissipation Factor   |         |     | ≤0.005 at 1kHz and 25°C  |      |       |      |
| Self Inductance   | ≤50% of maximum specified value                                |         |     |  |      |       |      |
|   | Insulation Resistance  |         |     | ≥50% of maximum specified value  |      |       |      |
|   | ≥50% of maximum specified value                                |         |     |  |      |       |      |
| Self Inductance   | <1 nano-Henry per mm of lead spacing                           |         |     |  |      |       |      |
| Capacitance Drift Factor  | <0.5% after 2 years at 40°C                                    |         |     |  |      |       |      |
| Capacitance Temperature Coefficient   | -200 ppm/°C, ±100ppm/°C  |         |     |  |      |       |      |
| Dielectric Strength   | Terminal to Terminal   |         |     | Terminal to case   |      |       |      |
|   | 160% of rated VDC or 150% VAC applied for 2 Seconds and 25°C   |         |     | 3kVAC @ 50/60 Hz applied between terminals and case for 60 seconds at 25°C |      |       |      |
| Dielectric Construction   | Polypropylene<br>Metallized film                               |         |     |  |      |       |      |
| Plastic Case and Epoxy Resin  | Flame Retardant materials (UL 94V-0)                           |         |     |  |      |       |      |
| Leads   | Lead free tinned copper leads                                  |         |     |  |      |       |      |



|    |         |         |        |        |
|----|---------|---------|--------|--------|
| L  | 18      | 26.5    | 32     | 42.5   |
| S  | 15      | 22.5    | 27.5   | 37.5   |
| d  | 0.8     | 0.8     | 0.8    | 1.0    |
| LL | 5.0±1.0 | 5.0±1.0 | 30±5.0 | 30±5.0 |

Permissible (sinusoidal) AC voltage versus frequency for a temperature rise of 10°C  
Not for across the line applications



| WVDC | Capacitance (µF) | IC PART NUMBER | dv/dt (v/µ sec.) | Dims LxHxT (mm) | S (MM) | d (MM) |
|------|------------------|----------------|------------------|-----------------|--------|--------|
| 250  | 0.047            | 473PPB250K     | 560              | 18x11x5         | 15     | 0.8    |
| 250  | 0.068            | 683PPB250K     | 560              | 18x12x6         | 15     | 0.8    |
| 250  | 0.1              | 104PPB250K     | 560              | 18x13.5x7.5     | 15     | 0.8    |
| 250  | 0.15             | 154PPB250K     | 560              | 18x14.5x8.5     | 15     | 0.8    |
| 250  | 0.22             | 224PPB250KB    | 560              | 18x16x10        | 15     | 0.8    |
| 250  | 0.22             | 224PPB250K     | 320              | 26.5x15x6       | 22.5   | 0.8    |
| 250  | 0.33             | 334PPB250K     | 320              | 26.5x17x8.5     | 22.5   | 0.8    |
| 250  | 0.47             | 474PPB250K     | 320              | 26.5x18.5x10    | 22.5   | 0.8    |
| 250  | 0.68             | 684PPB250KB    | 320              | 26.5x20x11      | 22.5   | 0.8    |
| 250  | 0.68             | 684PPB250K     | 240              | 32x20x11        | 27.5   | 0.8    |
| 250  | 1                | 105PPB250KG    | 320              | 26.5x22x13      | 22.5   | 0.8    |
| 250  | 1                | 105PPB250K     | 240              | 32x20x11        | 27.5   | 0.8    |
| 250  | 1.5              | 155PPB250K     | 240              | 32x24.5x15      | 27.5   | 0.8    |
| 250  | 2.2              | 225PPB250K     | 240              | 32x28x14        | 27.5   | 0.8    |
| 250  | 2.2              | 225PPB250KB    | 170              | 42.5x28x17      | 37.5   | 1      |
| 250  | 3.3              | 335PPB250K     | 170              | 42.5x30x22      | 37.5   | 1      |
| 250  | 4.7              | 475PPB250K     | 170              | 42.5x30x22      | 37.5   | 1      |
| 250  | 6.8              | 685PPB250K     | 170              | 42.5x37x28      | 37.5   | 1      |
| 400  | 0.033            | 333PPB400K     | 910              | 18x11x5         | 15     | 0.8    |
| 400  | 0.047            | 473PPB400K     | 910              | 18x12x6         | 15     | 0.8    |
| 400  | 0.068            | 683PPB400K     | 910              | 18x13.5x7.5     | 15     | 0.8    |
| 400  | 0.1              | 104PPB400K     | 910              | 18x14.5x8.5     | 15     | 0.8    |
| 400  | 0.15             | 154PPB400KE    | 910              | 18x16x10        | 15     | 0.8    |
| 400  | 0.15             | 154PPB400K     | 520              | 26.5x16x7       | 22.5   | 0.8    |
| 400  | 0.22             | 224PPB400K     | 520              | 26.5x18.5x10    | 22.5   | 0.8    |
| 400  | 0.33             | 334PPB400K     | 520              | 26.5x20x11      | 22.5   | 0.8    |
| 400  | 0.33             | 334PPB400KH    | 400              | 32x17x9         | 27.5   | 0.8    |
| 400  | 0.47             | 474PPB400KG    | 520              | 26.5x22x13      | 22.5   | 0.8    |
| 400  | 0.47             | 474PPB400K     | 400              | 32x22x13        | 27.5   | 0.8    |
| 400  | 0.68             | 684PPB400K     | 400              | 32x24.5x15      | 27.5   | 0.8    |
| 400  | 1                | 105PPB400KB    | 400              | 32x33x18        | 27.5   | 1      |
| 400  | 1                | 105PPB400K     | 280              | 42.5x28x17      | 37.5   | 1      |
| 400  | 1.5              | 155PPB400K     | 280              | 42.5x28x17      | 37.5   | 1      |
| 400  | 2.2              | 225PPB400K     | 280              | 42.5x30x22      | 37.5   | 1      |
| 400  | 3.3              | 335PPB400K     | 280              | 42.5x37x28      | 37.5   | 1      |
| 630  | 0.0047           | 472PPB630K     | 3300             | 18x11x5         | 15     | 0.8    |
| 630  | 0.0068           | 682PPB630K     | 3300             | 18x11x5         | 15     | 0.8    |
| 630  | 0.01             | 103PPB630K     | 3300             | 18x11x5         | 15     | 0.8    |
| 630  | 0.015            | 153PPB630K     | 3300             | 18x11x5         | 15     | 0.8    |
| 630  | 0.022            | 223PPB630K     | 3300             | 18x12x6         | 15     | 0.8    |
| 630  | 0.033            | 333PPB630K     | 3300             | 18x13.5x7.5     | 15     | 0.8    |
| 630  | 0.047            | 473PPB630KB    | 3300             | 18x16x10        | 15     | 0.8    |
| 630  | 0.047            | 473PPB630K     | 2050             | 26.5x15x6       | 22.5   | 0.8    |
| 630  | 0.068            | 683PPB630K     | 2050             | 26.5x16x7       | 22.5   | 0.8    |
| 630  | 0.1              | 104PPB630K     | 2050             | 26.5x17x8.5     | 22.5   | 0.8    |
| 630  | 0.15             | 154PPB630KG    | 1500             | 26.5x20x11      | 22.5   | 0.8    |
| 630  | 0.15             | 154PPB630K     | 1500             | 32x20x11        | 27.5   | 0.8    |
| 630  | 0.22             | 224PPB630K     | 1500             | 32x22x13        | 27.5   | 0.8    |
| 630  | 0.33             | 334PPB630K     | 1500             | 32x24.5x15      | 27.5   | 0.8    |
| 630  | 0.47             | 474PPB630KB    | 1500             | 32x33x18        | 27.5   | 1      |
| 630  | 0.47             | 474PPB630K     | 950              | 42.5x28x17      | 37.5   | 1      |
| 630  | 0.68             | 684PPB630K     | 950              | 42.5x28x17      | 37.5   | 1      |
| 630  | 1                | 105PPB630K     | 950              | 42.5x30x22      | 37.5   | 1      |
| 630  | 1.5              | 155PPB630K     | 950              | 42.5x37x28      | 37.5   | 1      |
| 1000 | 0.0033           | 332PPB102K     | 5500             | 18x11x5         | 15     | 0.8    |
| 1000 | 0.0047           | 472PPB102K     | 5500             | 18x11x5         | 15     | 0.8    |
| 1000 | 0.0068           | 682PPB102K     | 5500             | 18x11x5         | 15     | 0.8    |

| WVDC | Capacitance (µF) | IC PART NUMBER | dv/dt (v/µ sec.) | Dims LxHxT (mm) | S (MM) | d (MM) |
|------|------------------|----------------|------------------|-----------------|--------|--------|
| 1000 | 0.01             | 103PPB102KE    | 6200             | 18x12x6         | 15     | 0.8    |
| 1000 | 0.01             | 103PPB102K     | 2500             | 26.5x15x6       | 22.5   | 0.8    |
| 1000 | 0.015            | 153PPB102KB    | 5500             | 18x13.5x7.5     | 15     | 0.8    |
| 1000 | 0.015            | 153PPB102K     | 2600             | 26.5x15x6       | 22.5   | 0.8    |
| 1000 | 0.022            | 223PPB102KB    | 5500             | 18x14.5x8.5     | 15     | 0.8    |
| 1000 | 0.022            | 223PPB102K     | 2600             | 26.5x15x6       | 22.5   | 0.8    |
| 1000 | 0.033            | 333PPB102K     | 2600             | 26.5x16x7       | 22.5   | 0.8    |
| 1000 | 0.047            | 473PPB102K     | 2600             | 26.5x17x8.5     | 22.5   | 0.8    |
| 1000 | 0.068            | 683PPB102K     | 2600             | 26.5x18.5x10    | 22.5   | 0.8    |
| 1000 | 0.1              | 104PPB102KG    | 2600             | 26.5x22x13      | 22.5   | 0.8    |
| 1000 | 0.1              | 104PPB102K     | 1850             | 32x20x11        | 27.5   | 0.8    |
| 1000 | 0.15             | 154PPB102K     | 1850             | 32x22x13        | 27.5   | 0.8    |
| 1000 | 0.22             | 224PPB102K     | 1850             | 32x28x14        | 27.5   | 0.8    |
| 1000 | 0.33             | 334PPB102KB    | 1850             | 32x33x18        | 27.5   | 1      |
| 1000 | 0.33             | 334PPB102K     | 1200             | 42.5x28x17      | 37.5   | 1      |
| 1000 | 0.47             | 474PPB102K     | 1200             | 42.5x30x22      | 37.5   | 1      |
| 1000 | 0.68             | 684PPB102K     | 1200             | 42.5x37x28      | 37.5   | 1      |
| 1000 | 1                | 105PPB102K     | 1200             | 42.5x37x28      | 37.5   | 1      |
| 1600 | 0.0022           | 222PPB162K     | 7500             | 18x11x5         | 15     | 0.8    |
| 1600 | 0.0033           | 332PPB162K     | 7500             | 18x12x6         | 15     | 0.8    |
| 1600 | 0.0047           | 472PPB162K     | 7500             | 18x13.5x7.5     | 15     | 0.8    |
| 1600 | 0.0068           | 682PPB162K     | 7500             | 18x14.5x8.5     | 15     | 0.8    |
| 1600 | 0.01             | 103PPB162KB    | 7500             | 18x16x10        | 15     | 0.8    |
| 1600 | 0.01             | 103PPB162K     | 3800             | 26.5x15.5x6     | 22.5   | 0.8    |
| 1600 | 0.015            | 153PPB162K     | 3800             | 26.5x16x7       | 22.5   | 0.8    |
| 1600 | 0.022            | 223PPB162K     | 3800             | 26.5x17x8.5     | 22.5   | 0.8    |
| 1600 | 0.033            | 333PPB162K     | 3800             | 26.5x18.5x10    | 22.5   | 0.8    |
| 1600 | 0.047            | 473PPB162KG    | 3800             | 26.5x22x13      | 22.5   | 0.8    |
| 1600 | 0.047            | 473PPB162K     | 2700             | 32x20x11        | 27.5   | 0.8    |
| 1600 | 0.068            | 683PPB162K     | 2700             | 32x22x13        | 27.5   | 0.8    |
| 1600 | 0.1              | 104PPB162K     | 2700             | 32x28x14        | 27.5   | 0.8    |
| 1600 | 0.15             | 154PPB162KB    | 2700             | 32x33x18        | 27.5   | 1      |
| 1600 | 0.15             | 154PPB162K     | 1700             | 42.5x28x17      | 37.5   | 1      |
| 1600 | 0.22             | 224PPB162K     | 1700             | 42.5x28x17      | 37.5   | 1      |
| 1600 | 0.33             | 334PPB162K     | 1700             | 42.5x30x22      | 37.5   | 1      |
| 1600 | 0.47             | 474PPB162K     | 1700             | 42.5x37x28      | 37.5   | 1      |
| 2000 | 0.001            | 102PPB202KE    | 9000             | 18x11x5         | 15     | 0.8    |
| 2000 | 0.001            | 102PPB202K     | 6200             | 26.5x15x6       | 22.5   | 0.8    |
| 2000 | 0.0015           | 152PPB202KE    | 9000             | 18x11x5         | 15     | 0.8    |
| 2000 | 0.0022           | 222PPB202KE    | 9000             | 18x12x6         | 15     | 0.8    |
| 2000 | 0.0033           | 332PPB202KB    | 9000             | 18x13.5x7.5     | 15     | 0.8    |
| 2000 | 0.0033           | 332PPB202K     | 6200             | 26.5x15x6       | 22.5   | 0.8    |
| 2000 | 0.0047           | 472PPB202KB    | 9000             | 18x14.5x8.5     | 15     | 0.8    |
| 2000 | 0.0047           | 472PPB202K     | 6200             | 26.5x15x6       | 22.5   | 0.8    |
| 2000 | 0.0068           | 682PPB202KB    | 9000             | 18x16x10        | 15     | 0.8    |
| 2000 | 0.0068           | 682PPB202K     | 6200             | 26.5x15x6       | 22.5   | 0.8    |
| 2000 | 0.01             | 103PPB202K     | 6200             | 26.5x17x8.5     | 22.5   | 0.8    |
| 2000 | 0.015            | 153PPB202K     | 6200             | 26.5x18.5x10    | 22.5   | 0.8    |
| 2000 | 0.022            | 223PPB202KG    | 6200             | 26.5x22x13      | 22.5   | 0.8    |
| 2000 | 0.022            | 223PPB202K     | 4200             | 32x20x11        | 27.5   | 0.8    |
| 2000 | 0.033            | 333PPB202K     | 4200             | 32x22x13        | 27.5   | 0.8    |
| 2000 | 0.047            | 473PPB202K     | 4200             | 32x24.5x15      | 27.5   | 0.8    |
| 2000 | 0.068            | 683PPB202K     | 4200             | 32x28x14        | 27.5   | 0.8    |
| 2000 | 0.1              | 104PPB202KB    | 4200             | 32x33x18        | 27.5   | 1      |
| 2000 | 0.1              | 104PPB202K     | 2600             | 42.5x28x17      | 37.5   | 1      |
| 2000 | 0.15             | 154PPB202K     | 2600             | 42.5x30x22      | 37.5   | 1      |
| 2000 | 0.22             | 224PPB202K     | 2600             | 42.5x37x28      | 37.5   | 1      |

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