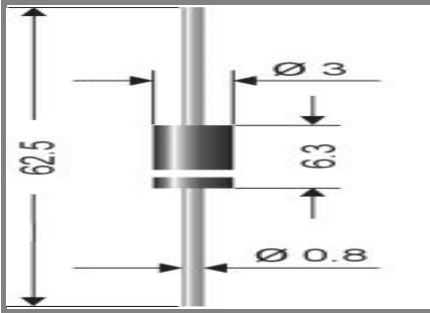


# P6 KE200...P6 KE440CA, P6 KE520C



**Axial lead diode**

## Unidirectional and bidirectional Transient Voltage Suppressor diodes

P6 KE200...P6 KE440CA, P6 KE520C

### Pulse Power

**Dissipation: 600 W**

**Maximum Stand-off voltage: 162 ... 423 V**

### Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0
- For bidirectional types (suffix "C" or "CA"), electrical characteristics apply in both directions.
- The standard tolerance of the breakdown voltage for each type is  $\pm 10\%$ . Suffix "A" denotes a tolerance of  $\pm 5\%$ .

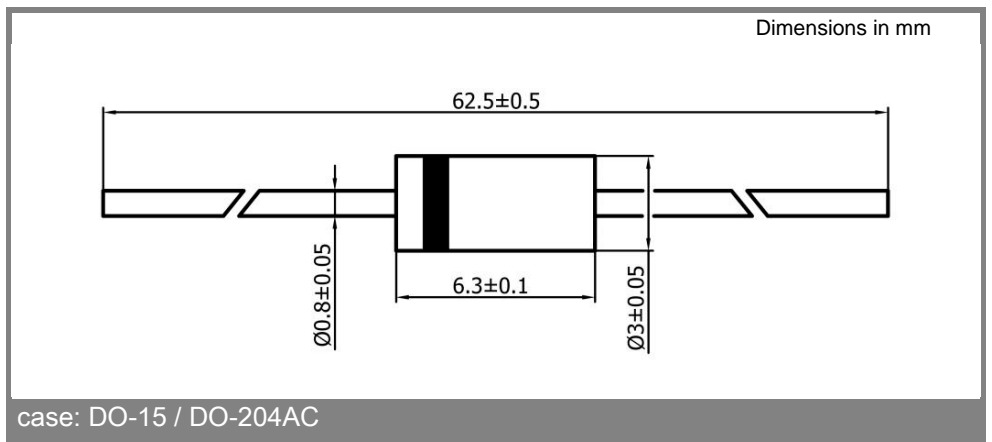
### Mechanical Data

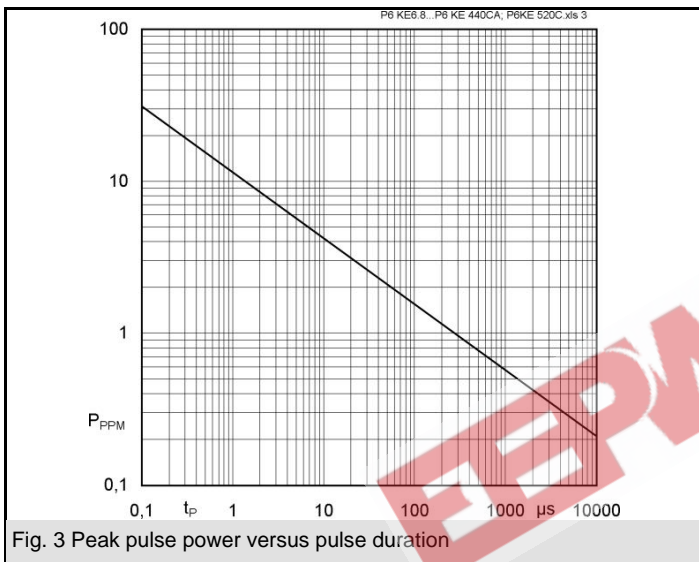
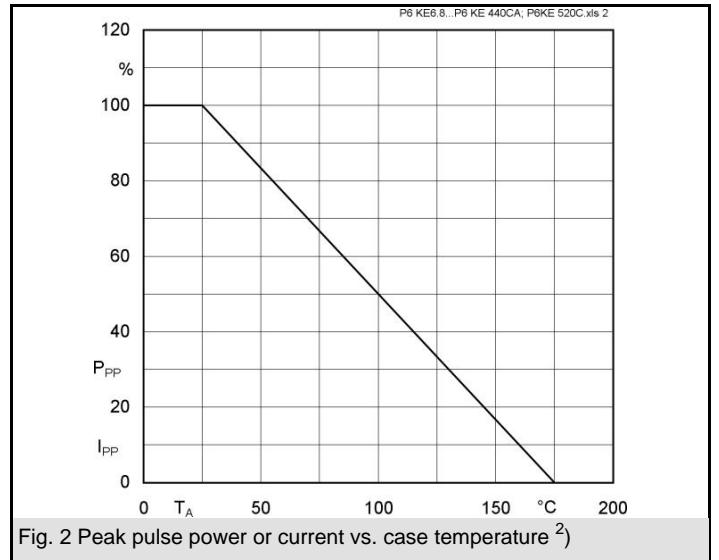
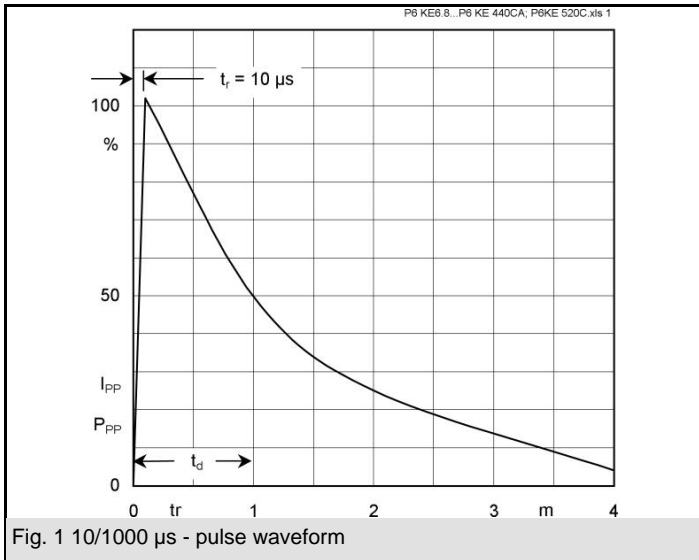
- Plastic case DO-15 / DO-204AC
- Weight approx.: 0,4 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 4000 per ammo

- 1) Non-repetitive current pulse see curve  $I_{PPM} = f(t_p)$
- 2) Valid, if leads are kept at ambient temperature at a distance of 10 mm from case
- 3) Unidirectional diodes only

| Absolute Maximum Ratings |   | $T_A = 25^\circ\text{C}$ , unless otherwise specified |                  |
|--------------------------|---|---|------------------|
| Symbol                   | Conditions  | Values  | Units            |
| $P_{PPM}$                | Peak pulse power dissipation<br>10 / 1000 $\mu\text{s}$ waveform <sup>1)</sup> $T_a = 25^\circ\text{C}$ | 600   | W                |
| $P_{M(AV)}$              | Steady state power dissipation <sup>2)</sup> , $T_a = 25^\circ\text{C}$                                 | 5   | W                |
| $I_{FSM}$                | Peak forward surge current, 60 Hz half sine-wave <sup>3)</sup> $T_a = 25^\circ\text{C}$                 | 100   | A                |
| $R_{thA}$                | Max. thermal resistance junction to ambient <sup>2)</sup>   | 30  | K/W              |
| $R_{thT}$                | Max. thermal resistance junction to terminal  | 15  | K/W              |
| $T_j$                    | Operating junction temperature  | - 50 ... + 175  | $^\circ\text{C}$ |
| $T_s$                    | Storage temperature   | - 50 ... + 175  | $^\circ\text{C}$ |
| $V_f$                    | Max. instant. forw. voltage $I_f = 50\text{ A}$ <sup>3)</sup>   | $V_{BR} \leq 200\text{V}, V_F < 3,5$                  | V                |
|                          |   | $V_{BR} > 200\text{V}, V_F < 5,0$                     | V                |

| Type     | Characteristics                               |                        | Breakdown voltage@ $I_T$ |           | Test current $I_T$<br>mA | Max. clamping voltage@ $I_{PPM}$ |                |
|----------|---|------------------------|--------------------------|-----------|--------------------------|----------------------------------|----------------|
|          | Max stand-off voltage@ $I_D$<br>$V_{WM}$<br>V | $I_D$<br>$\mu\text{A}$ | min.<br>V                | max.<br>V |                          | $V_C$<br>V                       | $I_{PPM}$<br>A |
| P6KE200  | 162   | 5                      | 180                      | 220       | 1                        | 287                              | 2,1            |
| P6KE200A | 171   | 5                      | 190                      | 210       | 1                        | 274                              | 2,2            |
| P6KE220  | 175   | 5                      | 198                      | 242       | 1                        | 344                              | 1,8            |
| P6KE220A | 185   | 5                      | 209                      | 231       | 1                        | 328                              | 1,9            |
| P6KE250  | 202   | 5                      | 225                      | 275       | 1                        | 360                              | 1,7            |
| P6KE250A | 214   | 5                      | 237                      | 263       | 1                        | 344                              | 1,8            |
| P6KE300  | 243   | 5                      | 270                      | 330       | 1                        | 430                              | 1,4            |
| P6KE300A | 256   | 5                      | 285                      | 315       | 1                        | 414                              | 1,5            |
| P6KE350  | 284   | 5                      | 315                      | 385       | 1                        | 504                              | 1,2            |
| P6KE350A | 300   | 5                      | 332                      | 368       | 1                        | 482                              | 1,3            |
| P6KE400  | 324   | 5                      | 360                      | 440       | 1                        | 574                              | 1              |
| P6KE400A | 342   | 5                      | 380                      | 420       | 1                        | 548                              | 1,1            |
| P6KE440  | 356   | 5                      | 396                      | 484       | 1                        | 631                              | 0,99           |
| P6KE440A | 376   | 5                      | 418                      | 462       | 1                        | 602                              | 1,04           |
| P6KE520C | 423   | 5                      | 470                      | 570       | 1                        | 745                              | 0,81           |





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