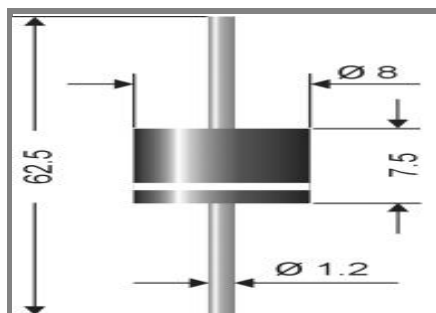


3 KP 130 ... 3 KP 180CA



Axial lead diode

Unidirectional and bidirectional Transient Voltage Suppressor diodes

3 KP 130 ... 3 KP 180CA

Pulse Power Dissipation: 3000 W

Maximum Stand-off voltage: 130 ... 180 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 $\pm 5\%$ for the breakdown voltage.

Mechanical Data

- Plastic case: 8 x 7,5 [mm] / P-600 Style
- Weight approx.: 1,5 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 500 pieces per ammo

1) Non-repetitive current pulse see curve

$$I_{PPM} = f(t_r)$$

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 10/1000 μs - pulse waveform, ¹⁾ $T_a = 25^\circ\text{C}$	3000	W
$P_{M(AV)}$	Steady state power dissipation ²⁾ , $T_a = 25^\circ\text{C}$	8	W
I_{FSM}	Peak forward surge current, 60 Hz half sine-wave, ³⁾ $T_a = 25^\circ\text{C}$	250	A
R_{thA}	Max. thermal resistance junction to ambient ²⁾	18	K/W
R_{thT}	Max. thermal resistance junction to terminal	4	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 $I_f = 100\text{ A}$ ³⁾	<3,5	V
		-	V

Characteristics							
Type	Max stand-off voltage@ I_D		Breakdown voltage@ I_T		Test current I_T mA	Max. clamping voltage@ I_{PPM}	
	V_{WM} V	I_D μA	min. V	max. V		V_C V	I_{PPM} A
3 KP 130	130	5	144	176	1	231	13
3 KP 130A	130	5	144	160	1	209	14,4
3 KP 150	150	5	167	204	1	268	11,2
3 KP 150A	150	5	167	185	1	243	12,3
3 KP 160	160	5	178	217,5	1	287	10,5
3 KP 160A	160	5	178	196,7	1	259	11,6
3 KP 170	170	5	189	231	1	304	9,9
3 KP 170A	170	5	189	208,9	1	275	10,9
3 KP 180	180	5	198	242	1	322	9,3
3 KP 180A	180	5	198	218,8	1	292	10,3

