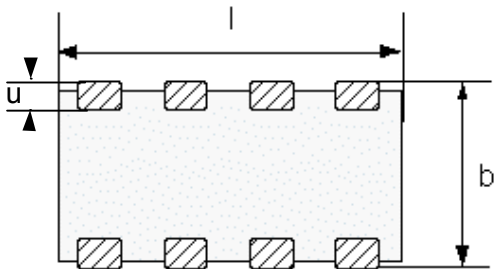


**Preliminary data sheet**

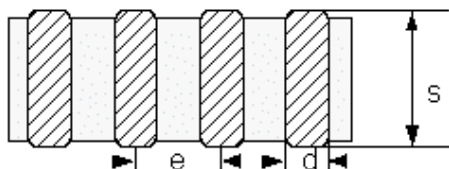
(parameters may be changed if necessary)

**Designation System:**

- CA = **C**hip **A**rray  
 06 = Dimensions of the device **06**x**12** (Length x width in 1/100 inch)  
 P = Design (**P**arallel internal structure)  
 4 = Number of elements  
 S = **S**pecial tolerance of the varistor voltage  
 17 = Max. operating voltage  
 T = **T**hree-layer-termination  
 LC = **L**ow **C**apacitance  
 G = Taped version (blister tape, 7" reel, 3000 pieces/reel)

**Figure:**


$$\begin{aligned}
 l &= 3,2 \pm 0,2 \\
 b &= 1,6 \pm 0,15 \\
 s &= 0,9 \text{ max.} \\
 d &= 0,4 \pm 0,15 \\
 e &= 0,8 \pm 0,15 \\
 u &= 0,2 \pm 0,1
 \end{aligned}$$



(All dimensions in mm)

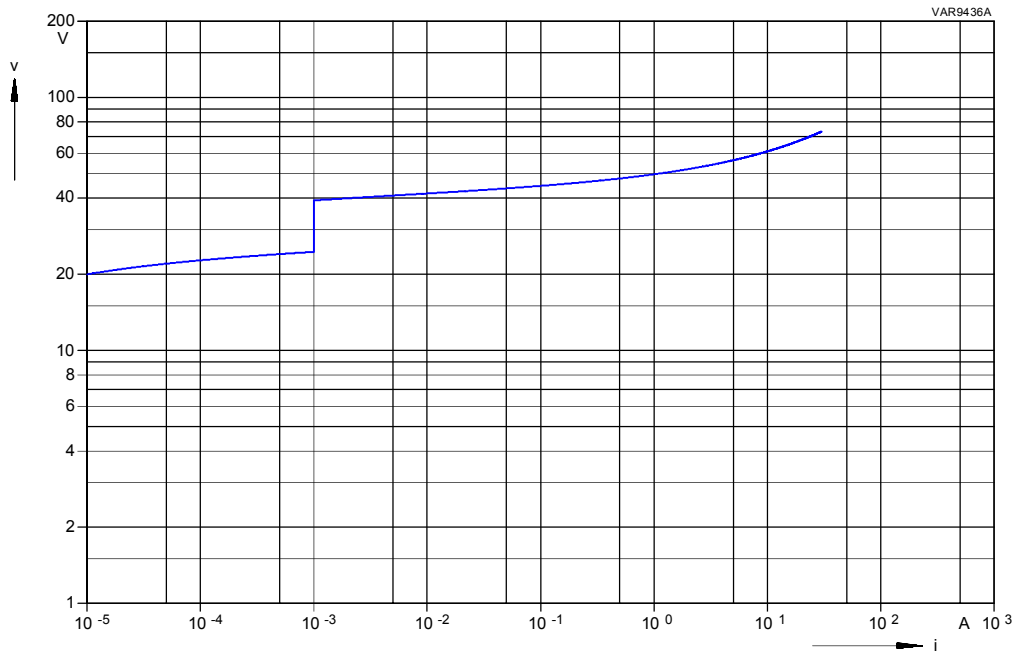
As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies. The information describes the type of component and shall not be considered as assured characteristics. Terms of delivery and rights to change design reserved.

ISSUE DATE	08.10.04	ISSUE	a	PUBLISHER	KB VS PE	PAGE	1/6
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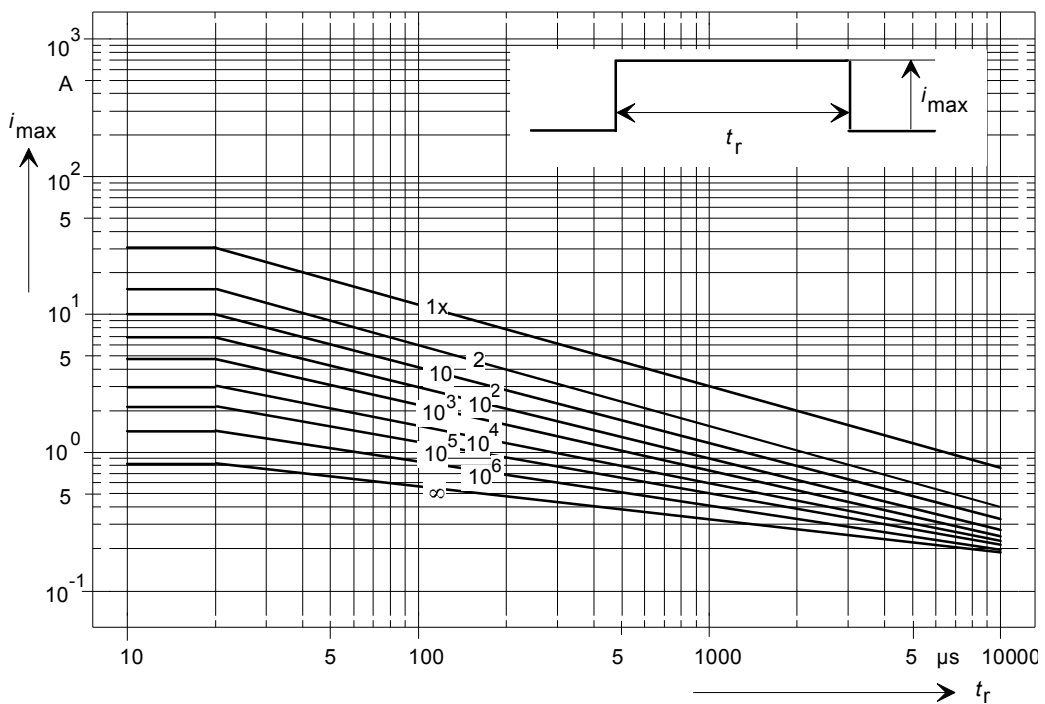
Preliminary data sheet

(parameters may be changed if necessary)

**V-I-Characteristic:**



**Derating field:**



**Preliminary data sheet**

(parameters may be changed if necessary)

## Electrical Data

Max. operating voltage

RMS voltage

 $V_{\text{eff}} = 17 \text{ V}$ 

DC voltage

 $V_{\text{DC}} = 22 \text{ V}$ 

Varistor voltage (@ 1 mA)

 $V_V = 25 - 40 \text{ V}$ 

Max. clamping voltage (@ 1 A)

 $V_C = 50 \text{ V}$ 

Max. average power dissipation

 $P_{\text{max}} = 3 \text{ mW}$ 

 Max. surge current (8/20  $\mu\text{s}$ )

 $\hat{I}_{\text{max}} = 1 \times 30 \text{ A}$ 

Max. energy absorption (2 ms)

 $E_{\text{max}} = 1 \times 0.075 \text{ J}$ 

Capacitance (@ 1MHz, 0.5 V)

 $< 75 \text{ pF}$ 

Response time

 $< 0.5 \text{ ns}$ 

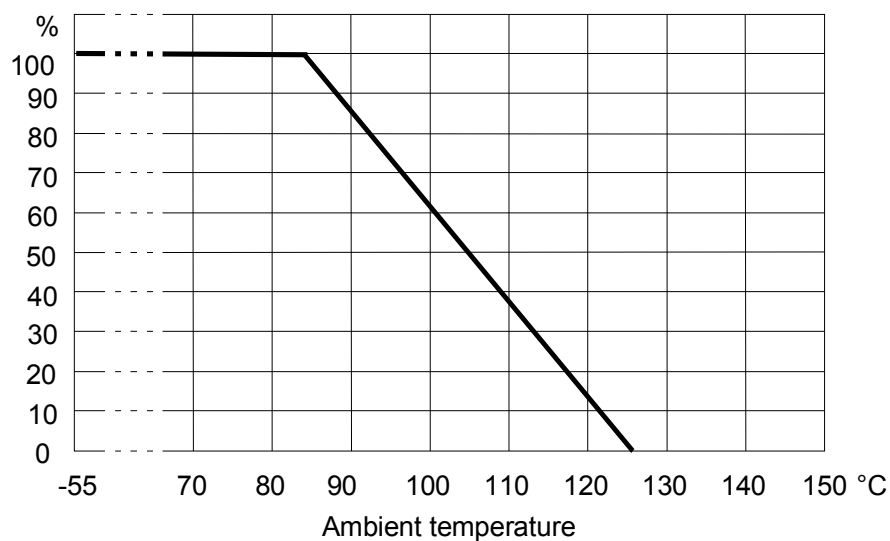
Operating temperature

 $-40 \dots +85 \text{ }^\circ\text{C}$ 

Storage temperature (mounted parts)

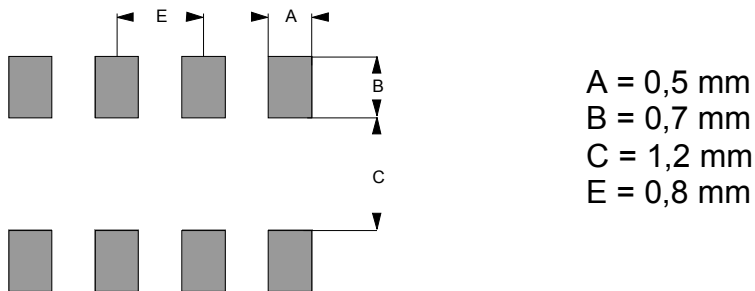
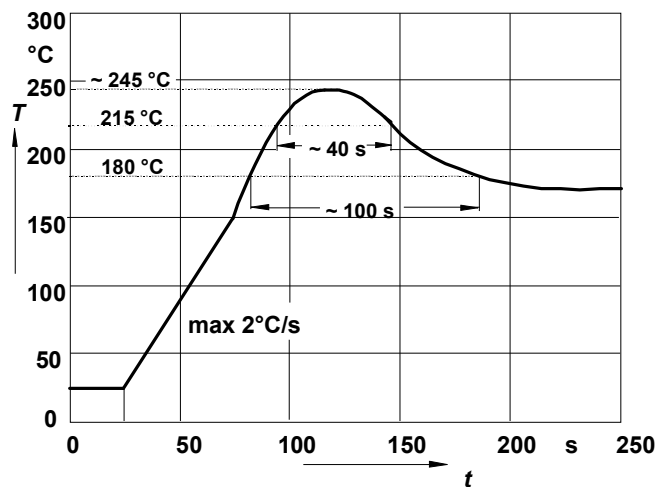
 $-40 \dots +125 \text{ }^\circ\text{C}$ 

Max. current, energy, operating voltage and average power dissipation depending on ambient temperature



**Preliminary data sheet**

(parameters may be changed if necessary)

**Recommended Geometry of Solder Pads**

**Recommended Soldering Temperature Profiles**


The components should be soldered within 12 months after delivery from EPCOS. The parts are to be left in the original packing in order to avoid any soldering problems caused by oxidized terminals.

Storage temperature: -25 to 45°C.

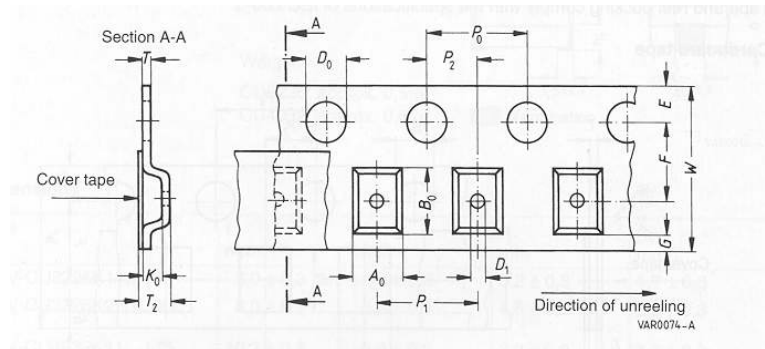
Relative humidity: <75% annual average, <95% on max. 30 days in a year.

The usage of mild, non activated fluxes for soldering is recommended, as well as proper cleaning of the PCB.

**Preliminary data sheet**

(parameters may be changed if necessary)

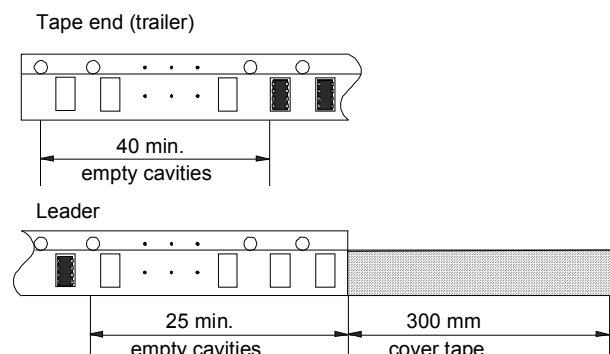
**Taping and Packaging:**
**Taping:** Tape and reel packing according to IEC 60286-3

**Tape material:** Blister

**Dimensions and tolerances:**

Definition	Symbol	Dimension [mm]	Tolerance [mm]
Compartment width	$A_0$	1.9	$\pm 0.2$
Compartment length	$B_0$	3.5	$\pm 0.2$
Compartment height	$K_0$	1.3	max.
Sprocket hole diameter	$D_0$	1.5	$+0.1 / -0$
Compartment hole diameter	$D_1$	1.0	min.
Sprocket hole pitch	$P_0$	4.0	$\pm 0.1$ <sup>1)</sup>
Distance center hole to center compartment	$P_2$	2.0	$\pm 0.05$
Pitch of the component compartments	$P_1$	4.0	$\pm 0.1$
Tape width	$W$	8.0	$\pm 0.3$
Distance edge to center of hole	$E$	1.75	$\pm 0.1$
Distance center hole to center compartment	$F$	3.5	$\pm 0.05$
Distance compartment to edge	$G$	0.75	min.
Overall thickness	$T_2$	2.5	max.
Thickness tape	$T$	0.3	max.

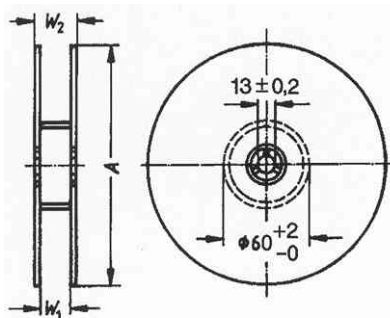
<sup>1)</sup>  $\leq \pm 0.2$  mm over any 10 pitches

Package: 8 mm tape:



**Preliminary data sheet**

(parameters may be changed if necessary)

**Packing material:** Plastic

**Reel Dimensions:**

Definition	Symbol	Dimension [mm]	Tolerance [mm]
Reel diameter	A	180	-3
Reel width (inside)	$W_1$	8.4	+1.5 /-0
Reel width (outside)	$W_2$	14.4	max.

**Packing unit:** 3000 pcs / reel

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ISSUE DATE	08.10.04	ISSUE	a	PUBLISHER	KB VS PE	PAGE	6/6
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