

## *Data Sheet*

Customer: \_\_\_\_\_

Product: Transient Voltage Suppressors KA/KB/KC Series \_\_\_\_\_

Package : Axial Lead \_\_\_\_\_

Issued Date: 10-Apr.-2015 \_\_\_\_\_

Edition: Ver. 2 \_\_\_\_\_

### Record of change

Date	Ver.	Description	Page
10-Feb.-2015	1		
10-Apr.-2015	2	Revised Reverse Current to 10uA	3

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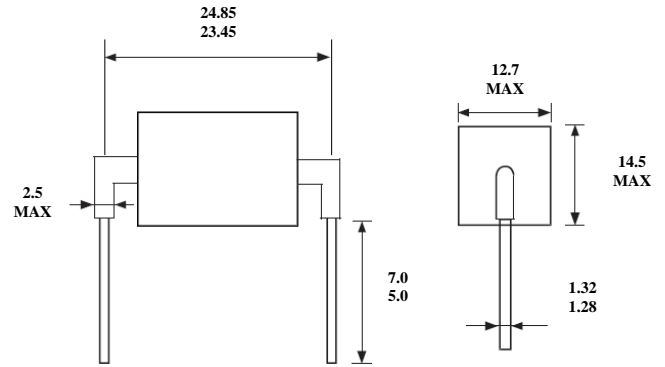
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Prepared by	Checked by	Approved by	Accepted by (customer)
10-Feb.-2015	10-Feb.-2015	10-Feb.-2015	
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**58 to 430 V Axial Lead Transient Voltage Suppressors**

**FEATURES**

- AXIAL LEAD TERMINAL.
- HIGH CURRENT TRANSIENT SUPPRESSOR.
- EXCELLENT CLAMPING CAPABILITY.
- GLASS PASSIVATED JUNCTION.
- BI-DIRECTIONAL.
- LOW SLOPE RESISTANCE.
- REPETITION RATE ( DUTY CYCLE ) : 0.01%.
- HAZARDOUS SUBSTANCES FREE.
- RoHS&REACH COMPLIANT
- HIGH TEMPERATURE SOLDERING : 260°C/10 SECONDS TERMINALS.
- EPOXY ENCAPSULATED.
- UL CERTIFICATION : E468602.



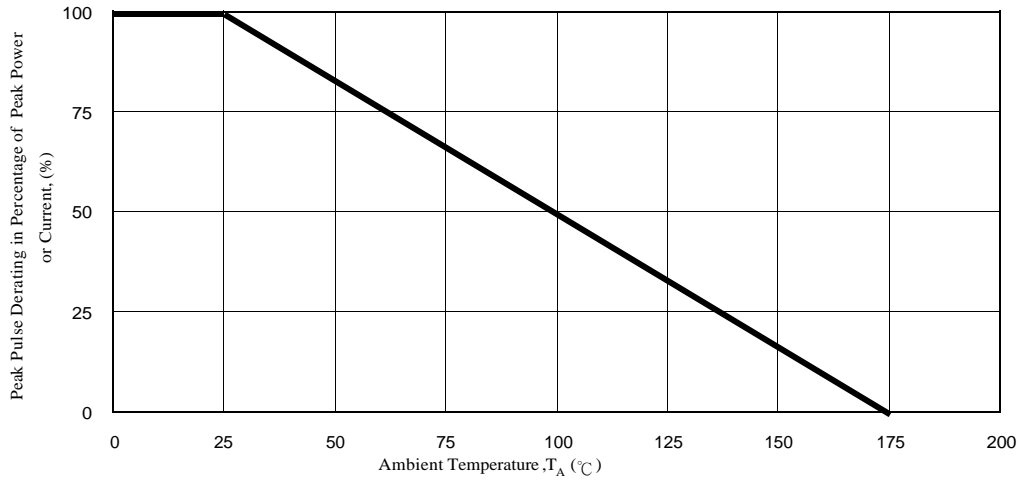
DIMENSIONS IN MILLIMETERS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS  
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED  
SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.  
FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

Parameter	Symbol	Value		UNIT
Current Rating, Rated IPP measured with 8/20uspulse	I <sub>pp</sub>	KA	3	Kamps
		KB	6	
		KC	10	
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150		°C

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage	Test Current	Current Rating	Maximum Clamping Voltage	Reverse Leakage
	VAC(V)	VDC(V)	VBR(V) MIN. @IT	IT(mA)	8/20 $\mu$ s (KA)	VC(V) @IPP	IR( $\mu$ A) @VDC
KA-058	40	58	64	10	3	110	10
KA-076	54	76	85	10	3	140	10
KA-170	130	170	180	10	3	260	10
KA-380	275	380	401	10	3	520	10
KA-430	310	430	440	10	3	625	10
KB-058	40	58	64	10	6	110	10
KB-076	54	76	83	10	6	135	10
KB-170	130	170	180	10	6	260	10
KB-190	145	190	200	10	6	290	10
KB-240	180	240	250	10	6	340	10
KB-380	275	380	401	10	6	520	10
KB-430	310	430	440	10	6	625	10
KC-058	40	58	64	10	10	110	10
KC-076	54	76	83	10	10	135	10
KC-170	130	170	180	10	10	260	10
KC-190	145	190	200	10	10	290	10
KC-200	150	200	222	10	10	330	10
KC-240	180	240	250	10	10	340	10
KC-380	275	380	401	10	10	520	10
KC-430	310	430	440	10	10	625	10

## Ratings and Characteristics Curves ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)



## Soldering Parameters

Wave Solder Condition		
Pre Heat	Temp. min	150 $^{\circ}\text{C}$
	Temp. max	200 $^{\circ}\text{C}$
	Time(min to max)	60-180 sec
Ramp up rate (150~200 $^{\circ}\text{C}$ )		<3 $^{\circ}\text{C}$ / sec

Reflow	Liquidus Temp.	>220 $^{\circ}\text{C}$
	Peak Temp.	255-260 $^{\circ}\text{C}$
	Time(Liq. To Peak)	60-150 sec
Ramp up rate (200~220 $^{\circ}\text{C}$ )		<3 $^{\circ}\text{C}$ / sec
Time within actual Peak Temp.		10-30 sec

Ramp Down Rate		<5 $^{\circ}\text{C}$ / sec
Time (25 $^{\circ}\text{C}$ to Peak Temp.)		<6 min
Do not exceed		280 $^{\circ}\text{C}$

