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

HITANO ENTERPRISE CORP.
7F-7, No. 3, Wu Chuan 1st Road, New Taipei Industrial Park,
New Taipei City, TAIWAN, R.O.C.
Tel: +886 2 2299 1331 (Rep.)
Fax: +886 2 2298 2466, 2298 2969

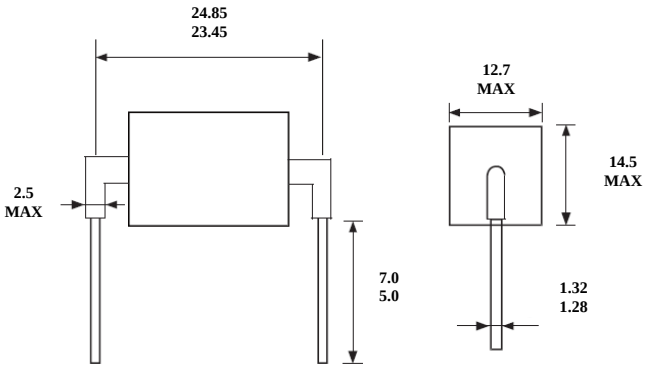
Prepared by	Checked by	Approved by	Accepted by (customer)
10-Feb.-2015	10-Feb.-2015	10-Feb.-2015	
Andy Hsu	***Hwa Wu***	***Hwa Wu***	

HITANO
ENTERPRISE CORP. ®

KA/KB/KC
Series

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.



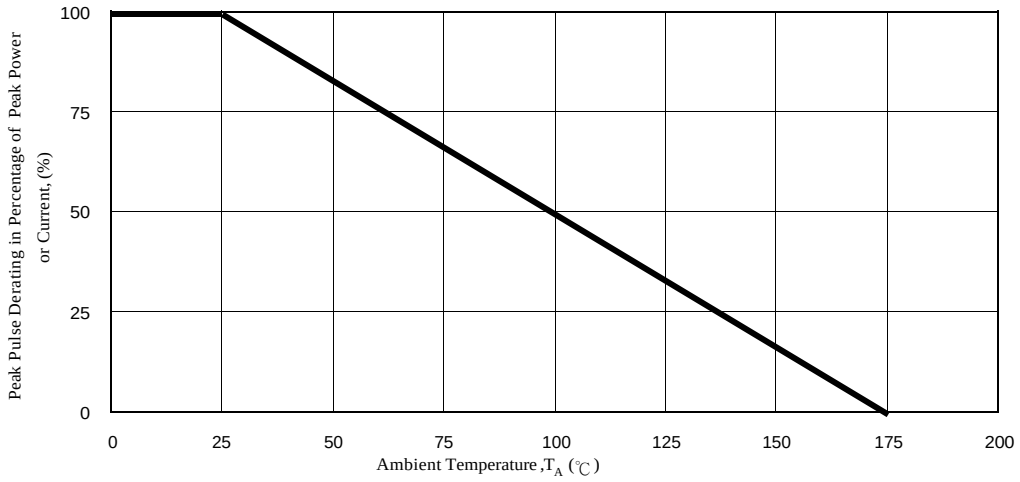
DIMENSIONS IN MILLIMETERS

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	Ipp	KA	3	Kamps
		KB	6	
		KC	10	
Operating junction and storage temperature range	T_J, T_{STG}	–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)	8/20μs (KA)	VC(V) @IPP	IR(μA) @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℃ unless otherwise noted)



Soldering Parameters

Wave Solder Condition		
Pre Heat	Temp. min	150℃
	Temp. max	200℃
	Time(min to max)	60-180 sec
Ramp up rate (150~200℃)		<3℃ / sec

Reflow	Liquidus Temp.	>220℃
	Peak Temp.	255-260℃
	Time(Liq. To Peak)	60-150 sec
Ramp up rate (200~220℃)		<3℃ / sec
Time within actual Peak Temp.		10-30 sec

Ramp Down Rate	<5℃ / sec
Time (25℃ to Peak Temp.)	<6 min
Do not exceed	280℃