

# PRODUCT DATA



## ■ Strap Type KSV Series

### ● Features

1. Broadest range of resettable devices available in the industry
2. Current ratings from 1.7 to 2.1A
3. Maximum voltage is 16V

### ● Recommended applications

1. Rechargeable battery packs

### ● Approvals



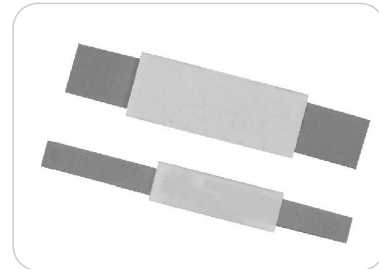
\* UL 1434 recognized



\* cUL recognized



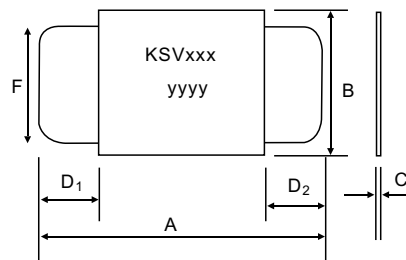
\* TUV recognized



### ● Part number code

K		S		V		0		1		6		0		1		7		0		N		B	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16								
<b>Product code</b>	<b>Form factor</b>		<b>Usage</b>				<b>Vmax. operation</b>		<b>I hold</b>		<b>Shape of lead</b>		<b>Packaging</b>		<b>Special Spec. Controlling Number</b>								
K	Thinking PPTC thermistor		S	Strap		M	Metal hydride device		016	16V	S	Slitted lead on single side		B	Bulk								
			L	Lithium ion device		030	30V		0090	0.9A	D	Slitted lead on dual side		R	Taping & Reel								
			V	Very low temp. device		060	60V		0014	0.14A	N	Noslitted lead											
			H	High power device		072	72V		0135	1.35A													
						110	110V		0170	1.7A													
									0600	6A													
									1000	10A													
									1200	12A													

### ● Dimensions



Marking: xxx=Vmax. operation, yyyy=I hold

(Unit: mm)

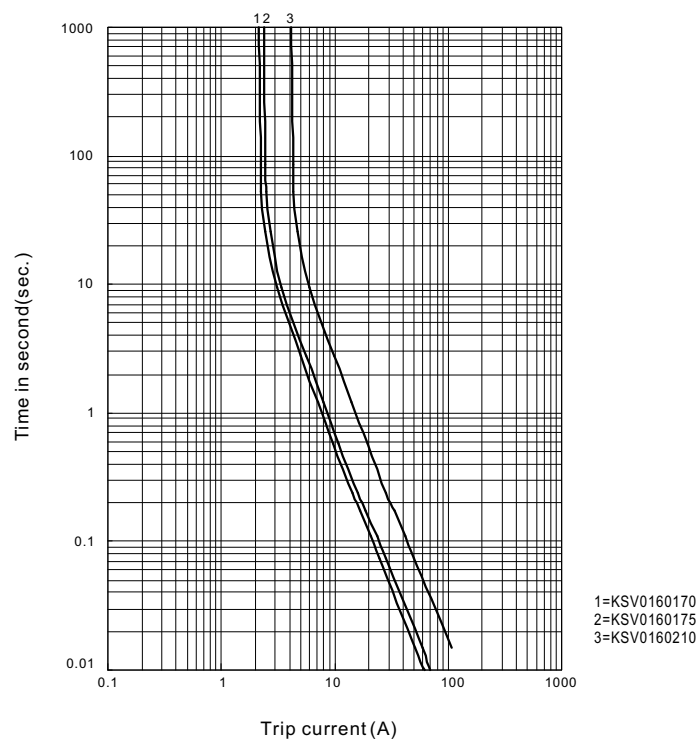
Part no.	A		B		C		D		F	
	Min.	Max.	Min.	Max.	Min.	Max.	D <sub>1</sub>	D <sub>2</sub>	Min.	Max.
KSV0160170	15.4	17.5	7.0	7.4	0.5	0.8	4.0~6.2		3.9	4.1
KSV0160170X	20.8	22.9	4.9	5.3	0.5	0.8	6.0~8.6		3.9	4.1
KSV0160175	25.8	28.0	3.5	3.9	0.6	0.8	5.0~7.0	9.0~11.0	2.4	2.6
KSV0160175X	31.2	33.4	3.5	3.9	0.6	0.8	7.0~10.0	11.0~14.0	2.4	2.6
KSV0160210	20.9	23.1	4.9	5.3	0.6	0.8	4.1~5.8		3.9	4.1

● **Characteristics**

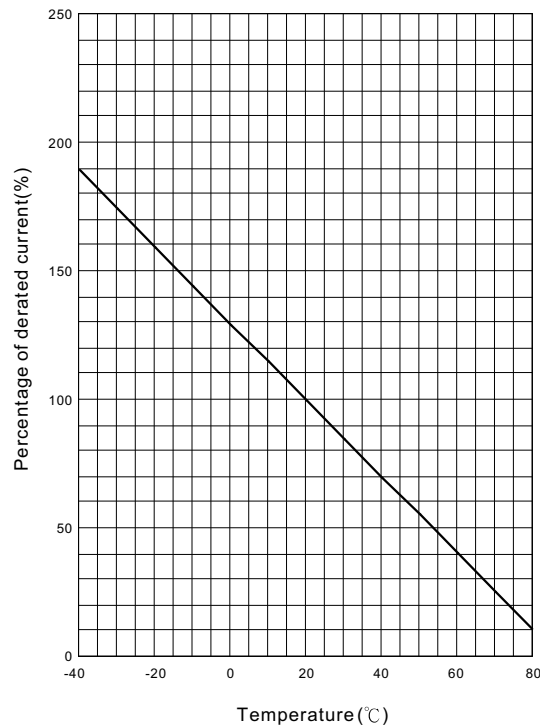
Part no.	V <sub>max.</sub>	I <sub>max.</sub>	I <sub>hold</sub> @ 23°C	I <sub>trip</sub> @ 23°C	P <sub>d</sub> (Max.)	Maximum time to trip		Resistance (Ω)		
						(A)	(Sec.)	Initial (R <sub>i</sub> )		Post trip (R <sub>1</sub> )
	(V <sub>dc</sub> )	(A)	(A)	(A)	(W)	(A)	(Sec.)	Min.	Max.	Max.
KSV0160170	16	100	1.70	3.40	1.40	8.50	3.0	0.030	0.052	0.105
KSV0160170X	16	100	1.70	3.40	1.40	8.50	5.0	0.030	0.052	0.105
KSV0160175	16	100	1.75	3.60	1.40	8.75	5.0	0.029	0.051	0.102
KSV0160175X	16	100	1.75	3.60	1.40	8.75	5.0	0.029	0.051	0.102
KSV0160210	16	100	2.10	4.70	1.50	10.00	5.0	0.018	0.030	0.060

Note: X=Special spec. Controlling number

● **Average time to trip curve (representative)**



● Thermal derating curve



● Reliability test

Item	Test condition/methods	Criteria
Passive aging	85°C, 1000hrs	$\Delta R/R_i \leq \pm 5\%$
Humidity storage	40°C, 95%RH, 1344hrs Mil-Std 202, method 103 condition D	$\Delta R/R_i \leq \pm 5\%$
Thermal shock	85/-40°C, 20 cycles	$\Delta R/R_i \leq \pm 10\%$
Cycle life	50 cycles at a 120% maximum current ( $I_{max}$ ) and maximum voltage ( $V_{max}$ ). UL 1434	No damage
Trip endurance	$V_{max}$ , $I_{max}$ , 48Hrs	No damage
Steady-state operating life	$V_{max}$ , $I_{ss}$ , 1000hrs Mil-Std 750, method 1026	$\Delta R/R_i \leq \pm 10\%$