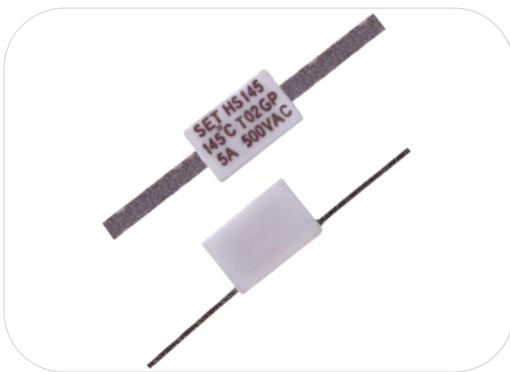


DC-ATCO

Direct Current Thermal-Link (Alloy Type)

HS Series



Description

The Direct Current Thermal-Link Alloy Type (DC-ATCO) is defined as a non-resettable protective device functioning one time only. It is widely used in electrical equipment. ATCO is mainly consist of fusible alloy, flux resin, case, sealant and lead wires. Normally, fusible alloy is jointed to the two lead wires. Under abnormal conditions, when the temp. reaches to the fusing temp. of ATCO, the fusible alloy melts and quickly retracts to the two lead wire ends with the aid of the flux resin and disconnects the circuit completely.

SETsafe | SETfuse Direct Current Thermal-Link Alloy Type (DC-ATCO)
 HS series Rated Functioning Temp. from 125 °C to 145 °C,
 Rated Current: 5 A, safety certification Includes UL, cUL, TUV, PSE, CCC,
 and complies with RoHS and REACH.

Features

- Non-Resettable
- High Accuracy of Functioning Temp.
- High Operating Voltage
- RoHS & REACH Compliant

Applications

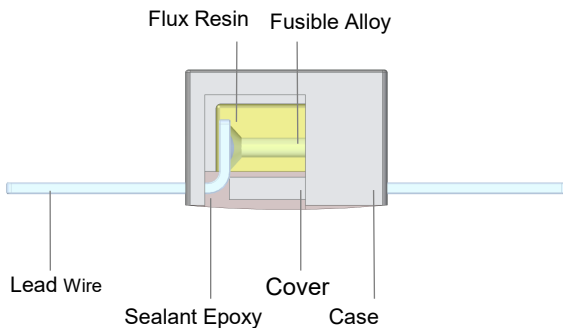
- Surge Protective Devices
- Batteries
- Automobile Electronic

Customization

- Other Temp.
- The Length of Lead Wires
- Leads Forming Types

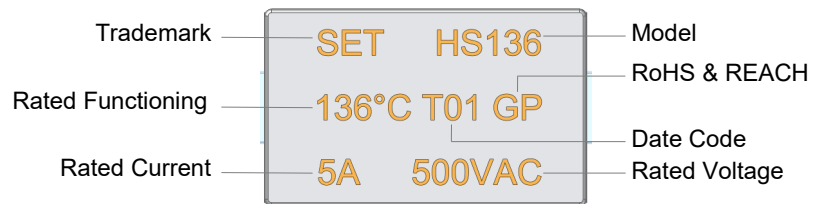
Structure Diagrams

Axial



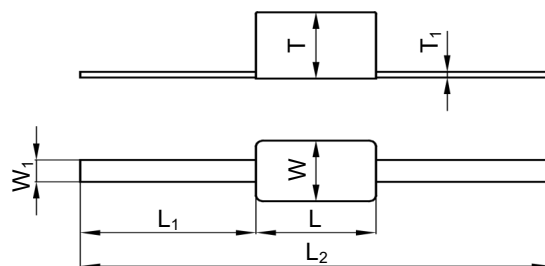
Marking

Axial (Color for reference only)



Remark: The first letter of the Date Code Year/quarter A stands for 2000, B stands for 2001, 01 stands for the first quarter, 02 stands for the second quarter, and so on.






Dimensions (mm)



L	L ₁	L ₂	W	W ₁	T	T ₁
9.6 ± 1.0	30.0 ± 2.0	70.0 ± 3.0	6.0 ± 1.0	2.0 ± 0.5	6.0 ± 1.0	0.50 ± 0.05

Specifications

Rated Functioning Temp. (T_f) °C






	Model	Fusing Temp.	T_h	T_m	I_r	U_r						RoHS REACH
		(°C)	(°C)	(°C)	(A)	(V)	UL	cUL	TUV	PSE	CCC	
145	HS145	140 ± 2	118	250	5	AC 500	●	●	●	●	●	●
						DC 200	●	●	●	○	●	●
136	HS136	131 ± 3	111	250	5	AC 500	●	●	●	●	●	●
						DC 200	●	●	●	○	●	●
125	HS125	121 ± 2	98	250	5	AC 500	●	●	●	●	●	●
						DC 200	●	●	●	○	●	●

Note:

1: "●"Means certificated, "○"Means non-certificated, RoHS & REACH Compliant .

2: " * "Customizable DC voltage.

Agency Information

Institution	Standards	The File No. and certification No. obtained by SETsafe SETfuse
	UL 60691	E214712
	CAN-CSA-E60691	E214712
	EN 60691	R50338012
	J60691	JET2121-32001-2024、JET2121-32001-2025
	GB 9816.1	2020980205000178

Soldering

Hand-Soldering

- Soldering should be carried out according to Table T-1.
- The thermal element of ATCO is fusible alloy with low melting point, which is jointed with ATCO lead wires. Improper soldering operation (too high soldering temp. , too long soldering time, too short lead wire etc.) may transfer more heat to the thermal element and ATCO may open in advance.
- When soldering conditions are more severe than those listed in Table T-1, a heat sink fixture should be used between soldering point and ATCO body.
- When soldering, please do not pull / push or twist ATCO body or lead wires.
- After soldering, let it naturally cool for longer than 20 seconds. During cooling, never move the ATCO body or lead wires.

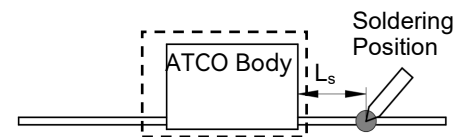


FIGURE T-1

TABLE T-1 Hand-Soldering Time

Rated Functioning Temp. (T _f)	Max. Allowable Soldering Time for Different Lead Wire Length (Fig.T-1)									Max. Soldering Temp.
	L _s Length	Time		L _s Length	Time		L _s Length	Time		
		Tinned Copper Wire	CP Wire		Tinned Copper Wire	CP Wire		Tinned Copper Wire	CP Wire	
(°C)	(mm)	(s)	(s)	(mm)	(s)	(s)	(mm)	(s)	(s)	(°C)
125 to 135	10	1 ^a	4	20	3	6	30	5	8	400
136 to 145	10	3	6	20	5	8	30	5	8	400

Note:

a: Auxiliary Heat Sink Fixture is Required to Avoid ATCO Cutting off Unexpectedly.

DC-ATCO

Direct Current Thermal-Link (Alloy Type)

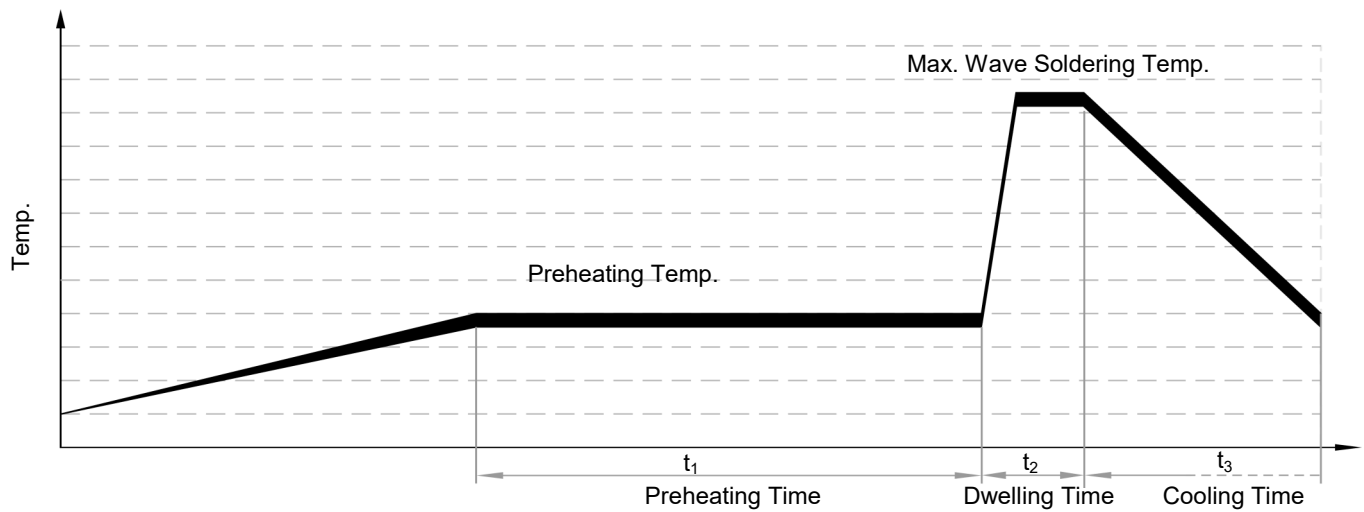
HS Series

Wave Soldering

The wave soldering parameters as Table T-2, for reference only, when ATCO is for practice use, you need to do some validation experiments. For example, using X-RAY to see the fusible alloy of ATCO whether damage after wave soldering.

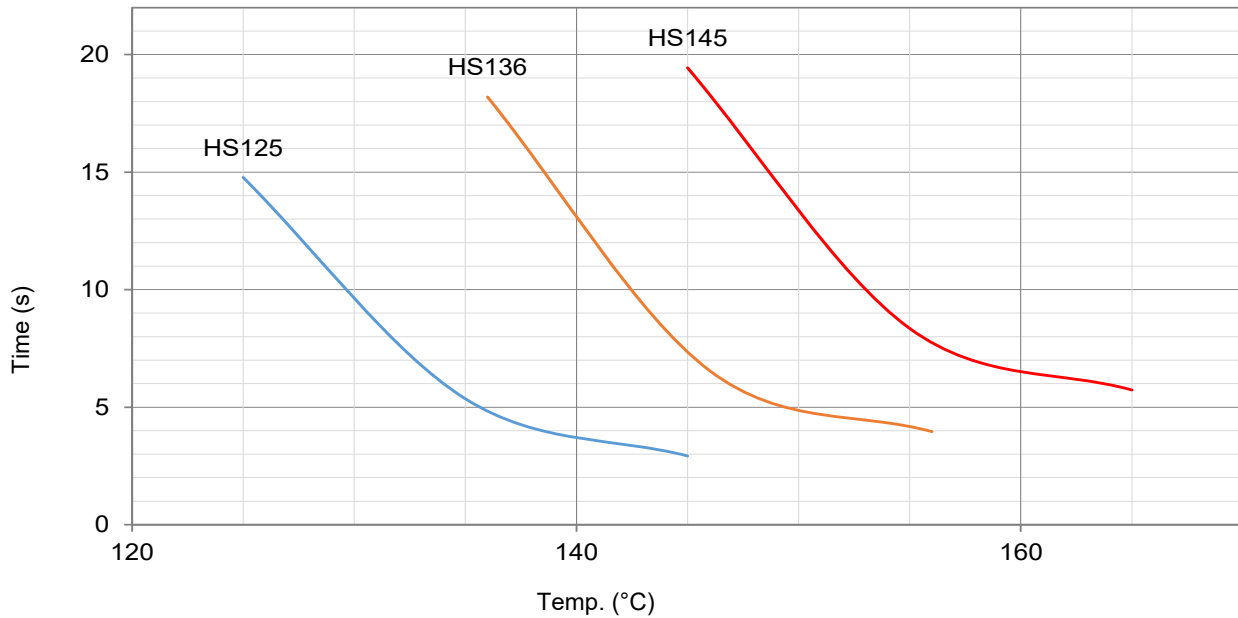
TABLE T-2 Wave Soldering Parameters Setting

Rated Functioning Temp. (T_f)	Max. Allowable Preheating Temp. When the Length of Lead Wire is Different (Fig.T-1)				Preheating Time (t_1)	Max. Wave Soldering Temp.	Dwelling Time (t_2)	Cooling Time (t_3)
	L_s Length	Preheating Temp.	L_s Length	Preheating Temp.				
(°C)	(mm)	(°C)	(mm)	(°C)	(s)	(°C)	(s)	(s)
125 to 130	建议手工焊接							
131 to 145	20	80	30	90	< 60	≤ 260	≤ 3	≤ 10



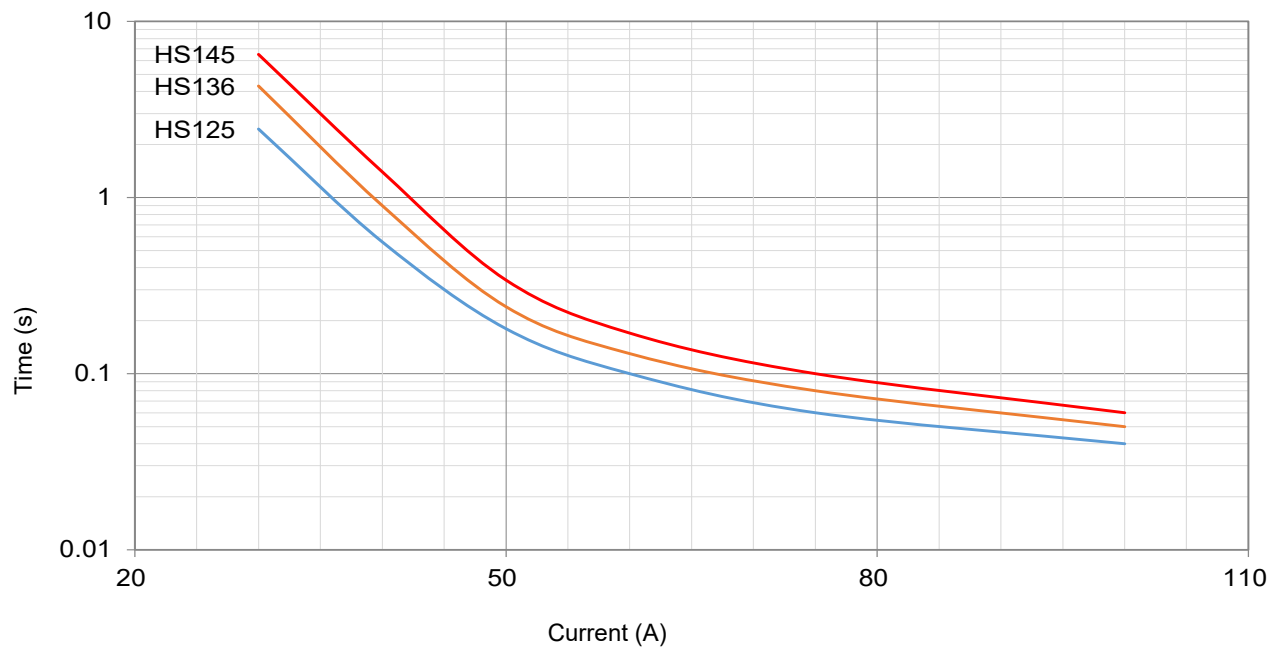
Product Temp.-Time Curve (Reference)

The Temp.-Time Curve of Thermal-Link in different temp. oil bath.



Product Current-Time Curve (Reference)

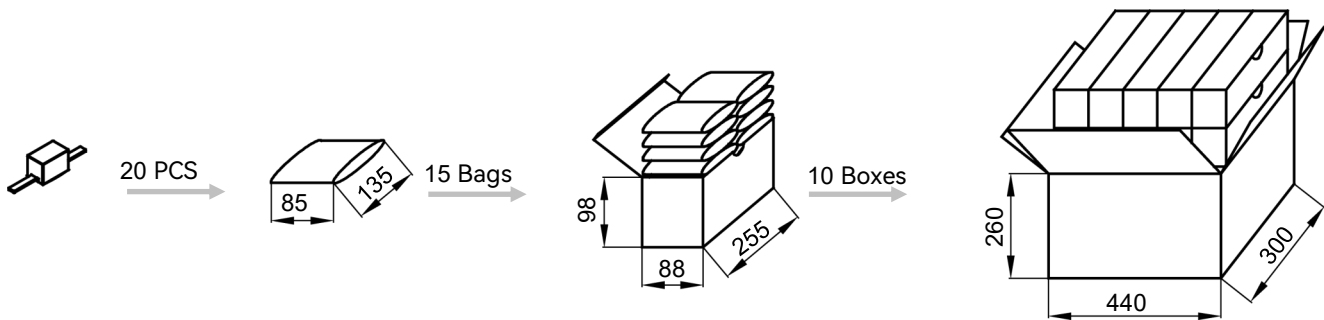
The Current-Time Curve shows functioning time at multi-times rated current at room temperature $25 \pm 2 \text{ }^\circ\text{C}$.



Packaging Information

Bulk

Item	PE Bag	Box	Carton
Dimensions (mm)	135 × 85	255 × 88 × 98	440 × 300 × 220
Quantity (PCS)	20	300	3000
Gross Weight (kg)			16.0 ± 10%



DC-ATCO

Direct Current Thermal-Link (Alloy Type)

HS Series

Part Numbering System

ATCO - HS136 - G N N A B - 001

Other Options

Packing

B Bulk

T Taping

Leads Forming

A Straight Lead

B Single Lead Bending

C Leads Bending

Color of Insulation Tube

W White

R Red

K Black

N None

Insulation Tube Material

T Teflon

P Polyester

N None

Lead Wire Type

G Flat Electrode Chamber

M Multi stranded tinned copper wire

Rated Functioning Temp.

136 136 °C, See Specifications

Series

HS Series
See Specifications

Product Category

ATCO Alloy Thermal-Link

Glossary

Item	Description
TCO	<p>Thermal-Link A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a sufficient length of time to a temperature in excess of that for which it has been designed.</p> <p style="text-align: right;">— (GB 9816.1)</p>
ATCO	<p>Alloy Thermal-Link Alloy Type Thermal-Link, Alloy is the thermal element.</p> <p style="text-align: right;">— (GB 9816.1)</p>
T_f	<p>Rated Functioning Temp. The temperature of the Alloy Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load.</p> <p style="text-align: right;">— (GB 9816.1)</p> <p>Tolerance: T_f °C (GB 9816.1, EN 60691, K60691). Tolerance: $T_f \pm 7$ °C (J60691).</p>
Fusing Temp.	<p>Fusing Temp. The temperature of the Alloy Thermal-Link which causes it to change its state of conductivity is measured with silicone oil bath in which the temperature is increased at the rate of 0.5 °C to 1 °C / minute, with a detection current up to 10 mA as the only load.</p> <p style="text-align: right;">— (GB 9816.1)</p>
T_h	<p>Holding Temp. The Maximum temperature at which a Alloy Thermal-Link will not change its state of conductivity when conducting rated current for 168 hours.</p> <p style="text-align: right;">— (GB 9816.1)</p>
T_m	<p>Maximum Temp. Limit The temperature of the Alloy Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties of the Alloy Thermal-Link having changed its state of conductivity, will not be impaired for a given time.</p> <p style="text-align: right;">— (GB 9816.1)</p>
I_r	<p>Rated Current The current used to classify a Alloy Thermal-Link, which is the Maximum current that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely.</p> <p style="text-align: right;">— (GB 9816.1)</p>
U_r	<p>Rated Voltage The voltage used to classify a Alloy Thermal-Link, which is the Maximum voltage that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely.</p> <p style="text-align: right;">— (GB 9816.1)</p>
I_n	<p>Nominal Discharge Current Being able to withstand 15 peak currents of waveform 8/20 μs to test the product's durability of withstanding pulse current.</p> <p style="text-align: right;">— (UL 1449)</p>
I_{max}	<p>Max. Discharge Current Being able to withstand 1 peak current of waveform 8/20 μs to test max. pulse current that the product can withstand.</p> <p style="text-align: right;">— (UL 1449)</p>



ATTENTION

Usage

1. When atmosphere pressure is from 80 kPa to 106 kPa, the related altitude shall be from 2000 meters to - 500 meters.
2. Operating voltage less than rated voltage of ATCO, operating current less than rated current of ATCO.
3. Do not touch the ATCO body or lead wires directly when power is on, to avoid burn or electric shock.

Replace

ATCO is a non-repairable product. For safety sake, it shall be replaced by an equivalent ATCO from the same manufacturer, and mounted in the same way.

Storage

Do not store the ATCO at the high temp., high humidity or corrosive gas environment, avoid influencing the solder-ability of the lead wires, the product shall be used up within 1 year after receiving the goods.

Installation

Make Sure the Temp. of Installation Position.

1. It is recommended that a dummy ATCO with inbuilt thermo-couple shall be used to determine the proper temp.
2. The terminal product should be tested to ensure that potential abnormal conditions do not cause ambient temp. to exceed the T_m of the ATCO.
3. Mount the ATCO at the location where temp. rises evenly.

Installation position of mechanical performance requirements.

1. Do not locate the ATCO in a place where severe vibration always occurs.
2. Ensure that the lead wire is long enough, and avoid actions such as press, tensile or twist.
3. The seal or body of ATCO must not be damaged, burned or over heated.

Mechanical Connection

Riveting

1. Choose small resistivity riveting material and be riveted.
2. A flexible lead or lead with low resistance should be used to rivet the ATCO.
3. Contact resistance should be minimal, large contact resistance will lead to higher temp., ATCO Functioning in advance.

Crimping

1. Choose small resistivity crimping material and be crimped.
2. A flexible lead or lead with low resistance should be used to rivet the ATCO.
3. Contact resistance should be minimal, large contact resistance will lead to higher Temp., ATCO Functioning in advance.

Lead Wire Forming

1. If lead wire has to be bent, please pay attention to the distance between body and bending point. Refer to Table T-3.
2. When bending leads, please use pincher or similar tools to fix the product as shown in Fig.T-2, to avoid damaging the product.
3. During forming and mounting, lead wire should not be cut, nicked, bent sharply, to avoid breaking the product.
4. Tangential forces on the leads must be avoided (i.e. pushing or pulling on the leads at angle to ATCO body) as such forces may damage the seal of ATCO.

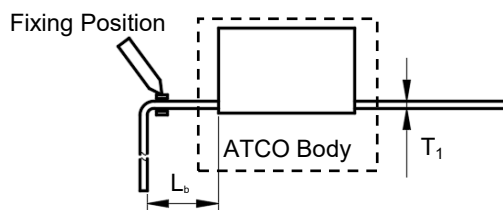


FIGURE T-2

TABLE T-3 Distance between Body and Bending Point

Flat Electrode Chamber	T ₁	(mm)	< 0.25	0.25 - 0.5	> 0.5
	L _b	(mm)	≥ 3	≥ 5	≥ 10

DC-ATCO

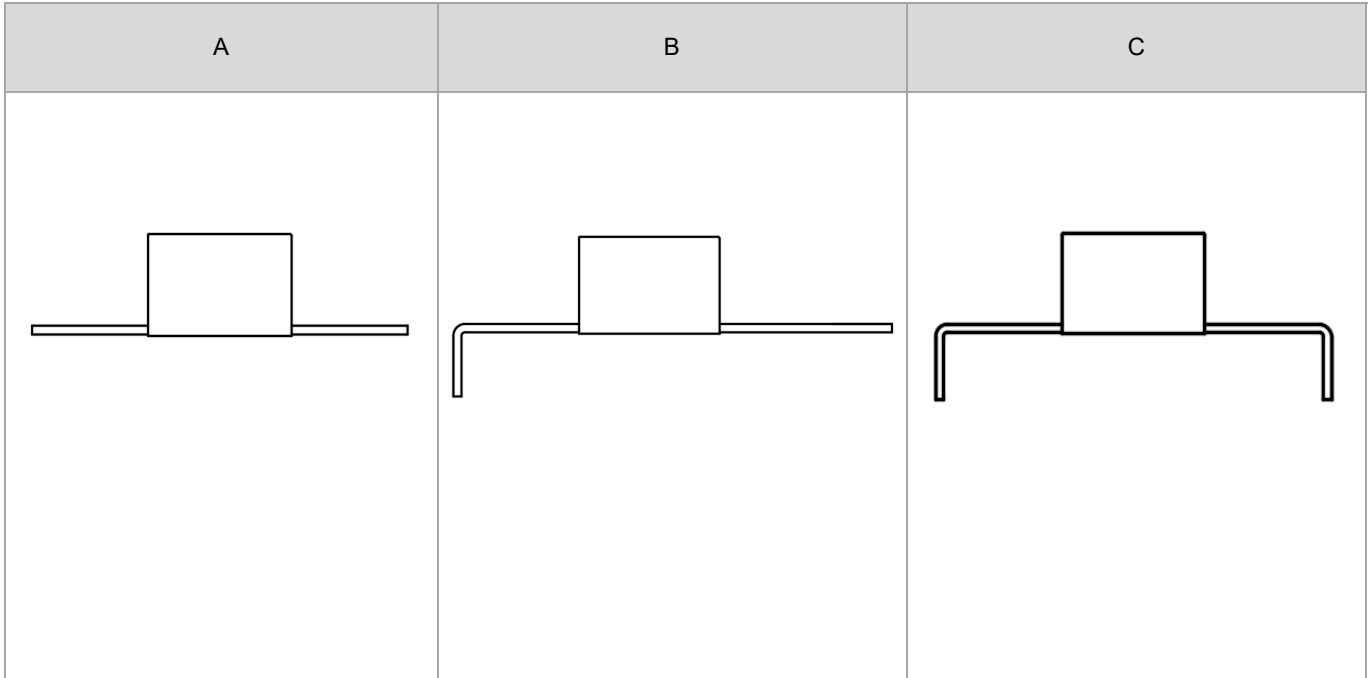
Direct Current Thermal-Link (Alloy Type)

HS Series





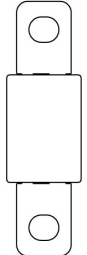
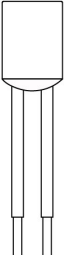



Leads Forming Types

The below leads forming is for reference, more leads forming can be customized.


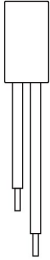



Axial



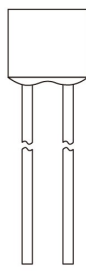
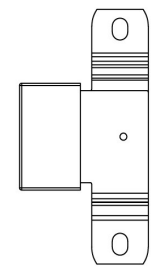
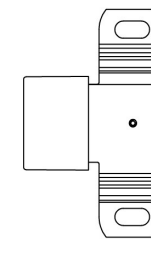
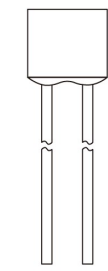
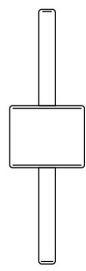
Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Rated Functioning Temp. (T _f) °C	Model								
	TGH187-HVS [^]	ASL187A-LSF [^]	RSK187A-KSS [^]	RVH187-HSF [^]	ARL187-LRA [^]			RQF187-FQS [^]	
230	○	○	○	○	○	○	○	○	○
221	○	○	○	○	○	○	○	○	○
205	○	○	○	○	○	○	○	○	○
200	○	○	○	○	○	○	○	○	○
187	TGH187-HVS [^]	ASL187A-LSF [^]	RSK187A-KSS [^]	RVH187-HSF [^]	ARL187-LRA [^]	○	○	RQF187-FQS [^]	○
160	○	○	○	○	○	○	○	○	○
150	TGH150-HVS [^]	ASL150A-LSF [^]	RSK150A-KSS [^]	RVH150-HSF [^]	ARL150-LRA [^]	RPK150-HRZ [^]	TG150C-HQZ [^]	RQF150-FQS [^]	TG150C-JPZ [^]
145	○	○	○	○	○	○	○	○	○
139	○	○	○	○	○	○	○	○	○
136	TGH136-HVS [^]	ASL136A-LSF [^]	RSK136A-KSS [^]	RVH136-HSF [^]	ARL136-LRA [^]	RPK136-HRZ [^]	TG136C-HQZ [^]	RQF136-FQS [^]	TG136C-JPZ [^]
135	○	○	○	○	○	○	○	○	○
133	○	○	○	○	○	○	○	○	○
130	TGH130-HVS [^]	○	○	RVH130-HSF [^]	○	○	○	RQF130-FQS [^]	○
125	TGH125-HVS [^]	ASL125A-LSF [^]	RSK125A-KSS [^]	RVH125-HSF [^]	ARL125-LRA [^]	RPK125-HRZ [^]	TG125C-HQZ [^]	RQF125-FQS [^]	TG125C-JPZ [^]
123	○	○	○	○	○	○	○	○	○
120	○	○	○	○	○	○	○	○	○
115	TGH115-HVS [^]	ASL115A-LSF [^]	RSK115A-KSS [^]	RVH115-HSF [^]	ARL115-LRA [^]	RPK115-HRZ [^]	TG115C-HQZ [^]	RQF115-FQS [^]	TG115C-JPZ [^]
105	○	○	○	○	○	○	○	○	○
102	TGH102-HVS [^]	ASL102A-LSF [^]	RSK102A-KSS [^]	RVH102-HSF [^]	ARL102-LRA [^]	RPK102-HRZ [^]	TG102C-HQZ [^]	RQF102-FQS [^]	TG102C-JPZ [^]
97	○	○	○	○	○	○	○	○	○
93	○	○	○	○	○	○	○	○	○
86	○	○	○	○	ARL86-LRA [^]	○	TG86C-HQZ [^]	RQF86-FQS [^]	○
76	○	○	○	○	○	○	○	○	○
I_r (A) Rated Current	15	30	25	15	30	15	15	10	20
U_r (VDC)[^] Rated Voltage	850		600		500		450		400
U_r (VAC)[*] Rated Voltage	○	○	○	○	○	○	○	○	○
Product Structure									
	Axial Shape	Radial Shape	Radial Shape	Radial Shape	Axial Shape	Radial Shape	Axial Shape	Radial Shape	Axial Shape

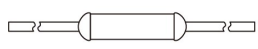
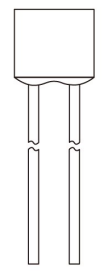
Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Rated Functioning Temp. (T_r) °C	Model											
	TG150C-JSZ*				HN150^*	HP150^*	HS150^*		QD150^A	PD150^A	TD150^A	SD150^A
230	○	○	○	○	○	○	○	○	○	○	○	○
221	○	○	○	○	○	○	○	○	○	○	○	○
205	○	○	○	○	○	○	○	○	○	○	○	○
200	○	○	○	○	○	○	○	○	○	○	○	○
187	○	○	○	○	○	○	○	○	○	○	○	○
160	○	○	○	○	○	○	○	○	○	○	○	○
150	TG150C-JSZ*	○	○	○	HN150^*	HP150^*	HS150^*	○	QD150^A	PD150^A	TD150^A	SD150^A
145	○	○	○	○	○	○	○	○	○	○	○	○
139	○	○	○	○	○	○	○	○	○	○	○	○
136	TG136C-JSZ*	○	○	○	HN136^*	HP136^*	HS136^*	○	QD136^A	PD136^A	TD136^A	SD136^A
135	○	○	○	○	○	○	○	○	○	○	○	○
133	○	○	○	○	○	○	○	○	○	○	○	○
130	○	○	○	○	○	○	○	○	QD130^A	PD130^A	TD130^A	SD130^A
125	TG125C-JSZ*	○	○	○	HN125^*	HP125^*	HS125^*	ALP125-PLZ^A	QD125^A	PD125^A	TD125^A	SD125^A
123	○	○	○	○	○	○	○	○	○	○	○	○
120	○	○	○	○	○	○	○	○	○	○	○	○
115	TG115C-JSZ*	○	○	ALP115-HLZ^A	○	○	○	○	QD115^A	PD115^A	TD115^A	SD115^A
105	○	○	○	○	○	○	○	○	○	○	○	○
102	TG102C-JSZ*	○	○	○	○	○	○	ALP102-PLZ^A	QD102^A	PD102^A	TD102^A	SD102^A
97	○	○	○	○	○	○	○	○	○	○	○	○
93	○	○	○	○	○	○	○	○	○	○	○	○
86	○	TG86C-HSZ*	RPF86-FPF^A	○	○	○	○	○	○	○	○	○
76	○	○	○	○	○	○	○	○	○	○	○	○
I_r (A) Rated Current	20	15	10	15	15	10	5	60	20	15 16	10	25
U_r (VDC)^A Rated Voltage	○	400	200	180	125							
U_r (VAC)^* Rated Voltage	600	○	690	500	○							
Product Structure												
	Axial Shape	Radial Shape		Axial Shape								

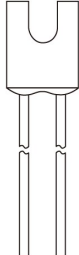

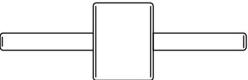
Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Rated Functioning Temp. (T _r) °C	Model														
	Q136**	Q136*	Q136*	P136**	P136*	P136*	TB136-UHZ [^]	TB136-UJZ*	TS136-RHZ [^]	TS136-RJZ*	S136 [^]	T136 [^]	ADN230B-NEZ		
230	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
221	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
205	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
187	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
160	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
150	○	○	○	○	○	○	○	○	○	○	S150 [^]	T150 [^]	○	○	
145	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
139	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
136	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
135	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
133	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
130	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
125	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
125	Q125**	○	○	P125**	○	○	TB125-UHZ [^]	TB125-UJZ*	TS125-RHZ [^]	TS125-RJZ*	○	○	○	○	
123	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
120	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
115	Q115**	Q115*	Q115*	P115**	P115*	P115*	TB115-UHZ [^]	TB115-UJZ*	TS115-RHZ [^]	TS115-RJZ*	S115 [^]	T115 [^]	○	○	
105	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
102	Q102**	○	○	P102**	P102*	P102*	TB102-UHZ [^]	TB102-UJZ*	TS102-RHZ [^]	TS102-RJZ*	S102 [^]	T102 [^]	○	○	
97	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
93	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
86	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
76	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
I_r (A) Rated Current	25			20			200		100		10		15 16	50	
U_r (VDC)[^] Rated Voltage	120						100		100		100		60		
U_r (VAC)[*] Rated Voltage	400	300	250	400	300	250	○	125	○	125		○	○		
Product Structure															
							Radial Shape						Axial Shape		

Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Rated Functioning Temp. (T_f) °C	Model																					
	R31^*	U31^*						C31^*					B31^*	H31^*	V31^*	V31^*			X31^*	K31^*		
230	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
221	R31^*	○	U31^*	○	○	○	○	○	○	○	○	○	B31^*	○	H31^*	V31^*	V31^*	○	○	X31^*	K31^*	○
205	R32^*	○	U32^*	○	○	○	○	○	○	○	○	○	B32^*	○	H32^*	V32^*	V32^*	○	○	X32^*	K32^*	○
200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
187	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	X17^*	K17^*	○
160	R16^*	○	U16^*	○	○	○	○	○	○	○	○	○	○	○	H16^*	V16^*	○	○	○	X16^*	K16^*	F16^*
150	R7^*	○	U7^*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	X7^*	K7^*	F7^*
145	R6^*	○	U6^*	C6^*	○	○	○	○	○	○	○	○	○	○	○	○	○	K6^*	F6^*	X6^*	K6^*	F6^*
139	○	CR13^*	○	○	M13^*	C13^*	○	○	○	SF13^*	V13^*	○	○	○	○	○	○	○	F13^*	○	○	F13^*
136	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	K9^*	○	X9^*	K9^*	○
135	R5^*	○	U5^*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	X5^*	K5^*	○
133	○	○	○	○	○	○	○	○	○	○	V8^*	SF8^*	○	○	○	○	○	○	F8^*	X8^*	K8^*	F8^*
130	R4^*	○	U4^*	○	○	○	○	○	○	○	V4^*	SF4^*	○	○	○	○	○	○	F4^*	X4^*	K4^*	F4^*
125	R3^*	○	U3^*	○	○	○	○	○	○	○	○	○	○	○	H3^*	○	○	○	○	X3^*	K3^*	F3^*
123	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
120	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
115	R2^*	○	U2^*	○	○	○	C2^*	○	○	○	V2^*	SF2^*	○	○	○	○	○	○	F2^*	X2^*	K2^*	F2^*
105	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
102	R1^*	○	U1^*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	F1^*	X1^*	K1^*	F1^*
97	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
93	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
86	R18^*	○	U18^*	○	○	○	C18^*	○	○	○	○	○	○	○	V18^*	○	○	○	F18^*	X18^*	K18^*	F18^*
76	R0^*	○	U0^*	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	X0^*	K0^*	F0^*
I_r (A) Rated Current		15	10	9	8.5	8	6	5	4	3	2.5	2	1	4	3	2	1					
U_r (VDC)^* Rated Voltage		60																				
U_r (VAC)^* Rated Voltage		250	○	250	○	250		○	250		○	250	125	○	250							
Product Structure		 Axial Shape										 Radial Shape										

Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Rated Functioning Temp. (T _r) °C	Model													
	230	○	○	○	○	○	○	○	○	○	○	ADN230B-NDZ ^Δ	ADN230B-PDZ ^Δ	○
221	XG31*	KG31*	○	○	C31*	○	B31*	○	H31*	○	○	○	ADN205B-NDZ ^Δ	○
205	XG32*	KG32*	○	○	C33*	○	B32*	○	H32*	○	○	○	○	○
200	○	○	○	○	○	○	○	○	○	○	○	○	○	○
187	○	○	○	○	○	○	○	○	○	○	○	○	○	○
160	XG16*	KG16*	○	○	○	B16*	○	○	○	○	○	○	○	○
150	XG7*	KG7*	C7 ^Δ	C7*	○	B7 ^Δ	○	H7 ^Δ	○	V7 ^Δ	○	○	○	○
145	XG6*	KG6*	C6 ^Δ	C6*	○	B6 ^Δ	○	H6 ^Δ	○	V6 ^Δ	○	○	○	○
139	○	○	C13 ^Δ	C13*	○	B13 ^Δ	○	H13 ^Δ	○	V13 ^Δ	○	○	○	○
136	XG9*	KG9*	C9 ^Δ	C9*	○	B9 ^Δ	○	H9 ^Δ	○	V9 ^Δ	○	○	○	○
135	XG5*	KG5*	C5 ^Δ	C5*	○	B5 ^Δ	○	H5 ^Δ	○	V5 ^Δ	○	○	○	○
133	XG8*	KG8*	C8 ^Δ	C8*	○	B8 ^Δ	○	H8 ^Δ	○	V8 ^Δ	○	○	○	○
130	XG4*	KG4*	C4 ^Δ	C4*	○	B4 ^Δ	○	H4 ^Δ	○	V4 ^Δ	○	○	○	○
125	XG3 ^Δ *	KG3 ^Δ *	C3 ^Δ	C3*	○	B3 ^Δ *	○	○	○	V3 ^Δ *	○	○	○	○
123	○	○	○	○	○	○	○	○	○	○	○	○	○	○
120	○	○	○	○	○	○	○	○	○	○	○	○	○	○
115	XG2 ^Δ *	KG2 ^Δ *	C2 ^Δ	C2*	○	B2 ^Δ *	○	H2 ^Δ *	○	V2 ^Δ *	○	○	○	○
105	○	○	○	○	○	○	○	○	○	○	○	○	○	○
102	XG1 ^Δ *	KG1 ^Δ *	○	C1 ^Δ *	C1*	B1 ^Δ *	B1*	H1 ^Δ *	H1*	V1 ^Δ *	V1*	○	○	○
97	○	○	○	○	C21 ^Δ *	○	B21 ^Δ *	○	H21 ^Δ *	○	V21 ^Δ *	○	○	○
93	○	○	○	○	○	○	○	○	○	○	○	○	○	○
86	XG18 ^Δ *	KG18 ^Δ *	○	C18 ^Δ *	C18*	B18 ^Δ *	B18*	H18 ^Δ *	H18*	V18 ^Δ *	V18*	○	○	○
76	XG0*	KG0*	○	C0*	○	B0 ^Δ *	B0*	H0 ^Δ *	H0*	V0 ^Δ *	V0*	○	○	○
I_r (A) Rated Current	3	2	7	5	3	2	1	50	55	50	80			
U_r (VDC)^Δ Rated Voltage	60		50								49	48	24	
U_r (VAC)[*] Rated Voltage	250		○	250	125	250	125	250	125	250	125	○		
Product Structure														
	Radial Shape										Axial Shape			