

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	ICP-S1.0TN
Manufacturer:	Rohm Semiconductor
Package:	Tape & Reel (TR)
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/rohm-semiconductor/icp-s1-0tn.html>

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New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

Circuit protection elements

●Circuit protection elements

Rohm's circuit protectors have a very reliable current cut-off capability that protects ICs and their circuits from accidental short circuit loads. Whether operated in AC or DC circuits, these circuit protectors have a very low internal resistance in normal operation, but safely and rapidly break the circuit when the current cutoff level is exceeded.

●Features

- 1) Cutoff is sharp and repeatable.
- 2) Low internal resistance and minimal voltage drop.
- 3) Incombustible.
- 4) Compact.
- 5) Rated for continuous use.
- 6) Good temperature characteristics.
- 7) Withstands surges well.
- 8) UL certified (UL certification number E107856).

●Application

Current surge protection

●Operation notes

Do not use this product on the primary side of commercial power supplies. Arcs that result after cutoff may damage the molding.

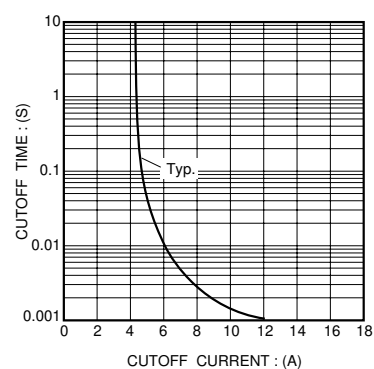
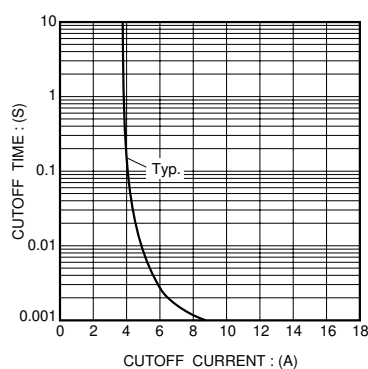
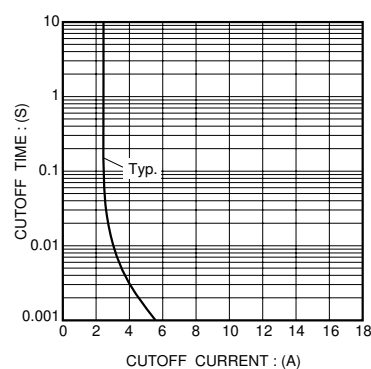
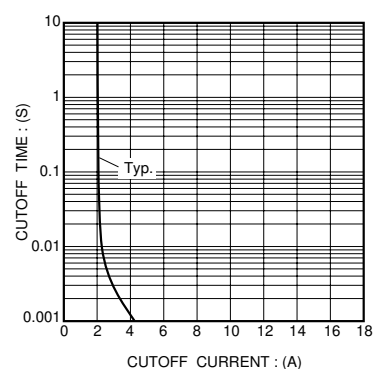
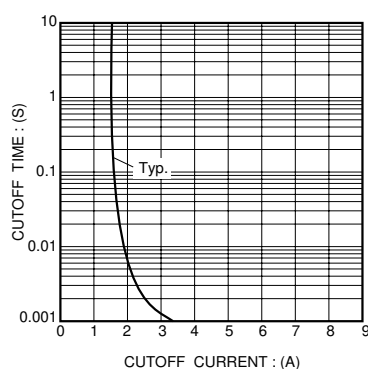
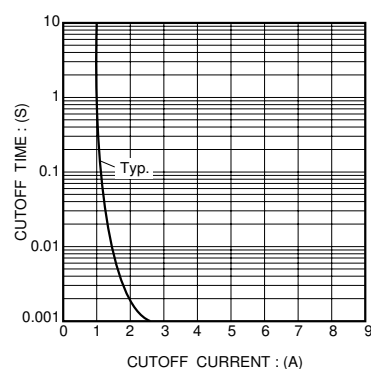
Surface mounting Type

●ICP-S series

Product name	Rated current (A)	Cutoff characteristics	Internal resistance Typ.(Ω)	Rated voltage (V)	Operating temperature (°C)	Storage temperature (°C)
ICP-S0.5	0.5	Fig.1	0.150	50	-55 to +125	-55 to +125
ICP-S0.7	0.7	Fig.2	0.084			
ICP-S1.0	1.0	Fig.3	0.061			
ICP-S1.2	1.2	Fig.4	0.048			
ICP-S1.8	1.8	Fig.5	0.032			
ICP-S2.3	2.3	Fig.6	0.026			

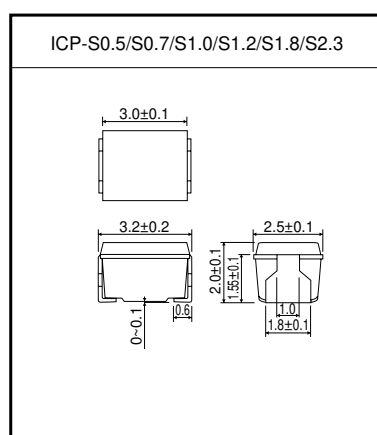
Overcurrent Protection Elements

●Cutoff characteristics



The cutoff characteristics shown are typical. For further details of how to use these protectors, please request the technical documentation from your Rohm representative.

●External dimensions (Unit : mm)

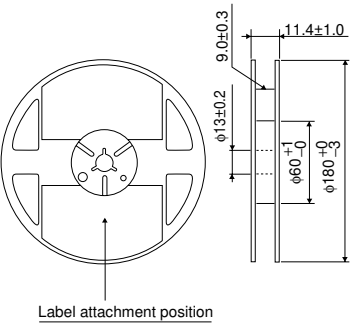
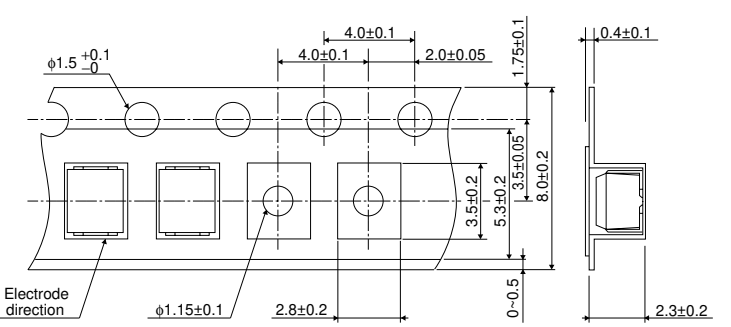


Overcurrent Protection Elements

●Packaging specifications

Type	Package type	Taping
	Symbol	TN
	Basic ordering unit (pieces)	2000
ICP-S0.5		○
ICP-S0.7		○
ICP-S1.0		○
ICP-S1.2		○
ICP-S1.8		○
ICP-S2.3		○

●Taping specifications (Unit : mm)

ICP-S taping (TN)	
Reel	Taping
 Label attachment position	 Electrode direction

Overcurrent Protection Elements

Leaded type

ICP-N series

Product name	Rated current (A)	Cutoff characteristics	Internal resistance Typ.(Ω)	Rated voltage (V)	Operating temperature ($^{\circ}\text{C}$)	Storage temperature($^{\circ}\text{C}$)
ICP-N10	0.4	Fig.1	0.220	50	-55 to +125	-55 to +125
ICP-N15	0.6	Fig.2	0.135			
ICP-N20	0.8	Fig.3	0.100			
ICP-N25	1.0	Fig.4	0.070			
ICP-N38	1.5	Fig.5	0.042			
ICP-N50	2.0	Fig.6	0.035			
ICP-N70	2.5	Fig.7	0.023			

●Cutoff characteristics

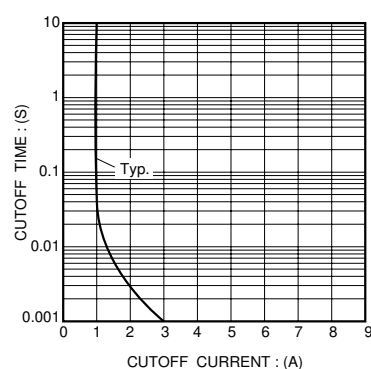


Fig.1 ICP-N10

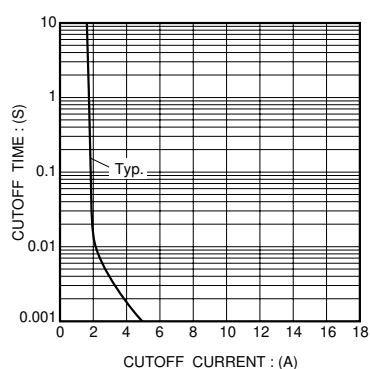


Fig.2 ICP-N15

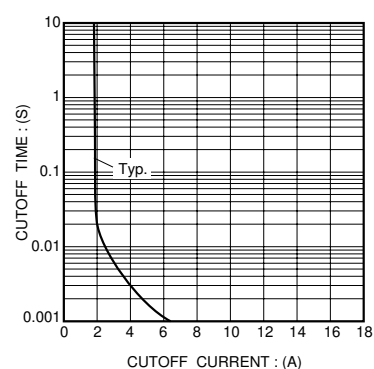


Fig.3 ICP-N20

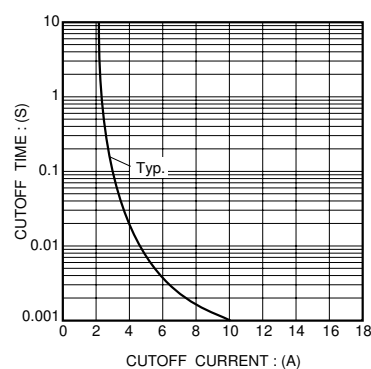


Fig.4 ICP-N25

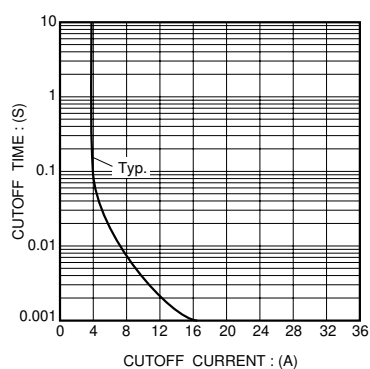


Fig.5 ICP-N38

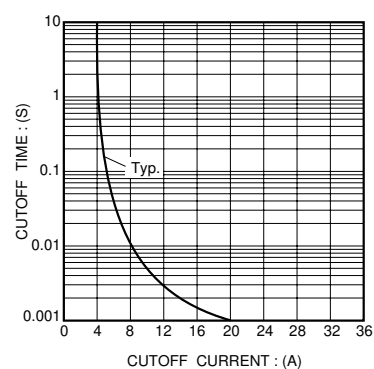
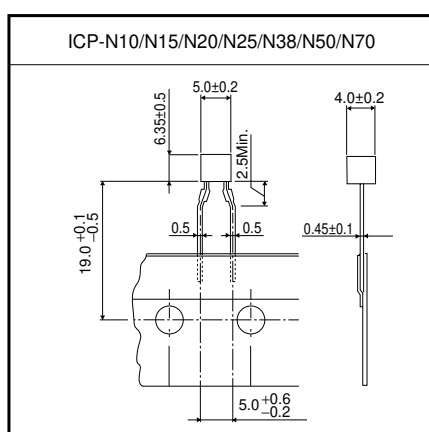


Fig.6 ICP-N50



●External dimensions (Unit : mm)



ICP-N Type	Packaging type	Taping
	Symbol	T104
	Basic ordering unit (pieces)	3000
ICP-N10/N15/N20/N25/N38/N50/N70		○

ICP-N taping (T104) Technical drawing of ICP-N taping (T104) showing top, side, and detail views with dimensions: - Top view dimensions: 19.0^{+0.1}_{-0.1}, 16.0^{+0.5}_{-0.5}, 11.0^{Max.}, 6.35^{±0.5}, 12.7^{±0.5}, 3.85^{±0.5}, 5.2^{Max.}, 12.5^{Min.}, 0^{±0.5}, 5.2^{Max.}, 0^{±1.0}, 4.2^{Max.}, 0^{-0.5}, 9.0^{±0.5}, 18.0^{+0.5}_{-0.3}, 6.0^{±0.5}, 0.5^{±0.1}, 0.5^{±0.5}, 2.5^{Min.}, 11.0^{Max.}, 16.0^{+0.5}_{-0.5}, 19.0^{+0.1}_{-0.1}, 6.35^{±0.5}, 4.0^{±0.2}, 5.0^{+0.6}_{-0.2}, 12.7^{±0.3.} - Side view dimensions: 40, 330, 275. - Detail view dimensions: 0.4^{+0.2}_{-0.1}, 0.7^{±0.2}.	ICP-N zigzag fold taping Technical drawing of ICP-N zigzag fold taping showing a 3D perspective view with dimensions: Dimensions: 40, 330, 275.
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Notes

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