# Circuit protection elements

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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

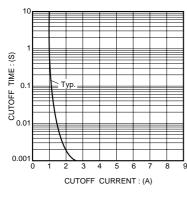
Do not use this product on the primary side of commercial power supplies. Arcs that result after cutoff may damage the molding.

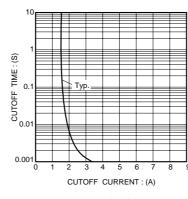
# **Surface mounting Type**

## ●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			

# Cutoff characteristics





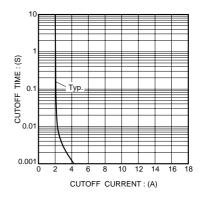


Fig.1 ICP-S0.5

Fig.2 ICP-S0.7

Fig.3 ICP-S1.0

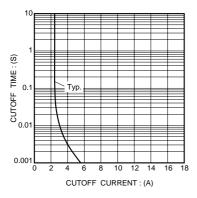
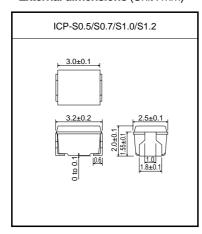


Fig.4 ICP-S1.2

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

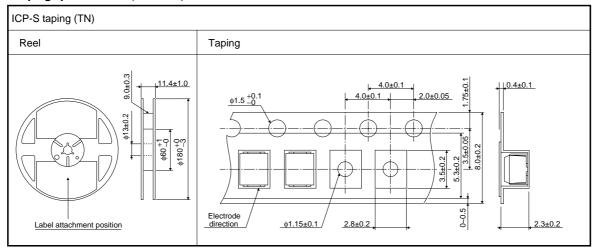
# ●External dimensions (Unit : mm)



# Packaging specifications

	Package type	Taping	
ICP-S	Symbol	TN	
Туре	Basic ordering unit (pieces)	2000	
ICP-S0.5		0	
ICP-S0.7		0	
ICP-S1.0		0	
ICP-S1.2		0	

# ● Taping specifications (Unit: mm)



# Leaded type

# ICP-N series

Product name	Rated current (A)	Cutoff characteristics	Internal resistance Typ.(Ω)		Operating temperature (°C)	Storage temperature(°C)
ICP-N10	0.4	Fig.1	0.220			
ICP-N15	0.6	Fig.2	0.135			
ICP-N20	0.8	Fig.3	0.100			
ICP-N25	1.0	Fig.4	0.070	50	-55 to +125	-55 to +125
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

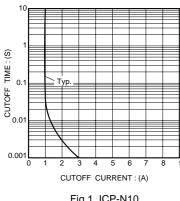


Fig.1 ICP-N10

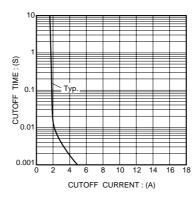


Fig.2 ICP-N15

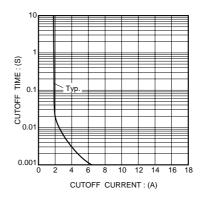


Fig.3 ICP-N20

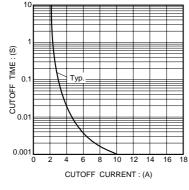


Fig.4 ICP-N25

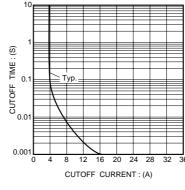


Fig.5 ICP-N38

**ROHM** 

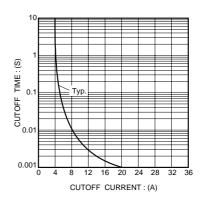


Fig.6 ICP-N50

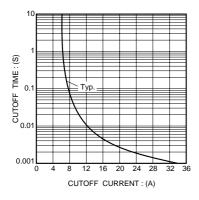
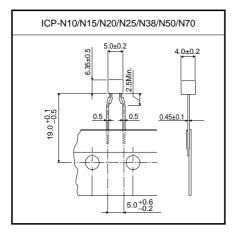


Fig.7 ICP-N70

The cutoff characteristics given represent typical values. Technical documentation regarding ways of using circuit protectors is available from your Rohm representative.

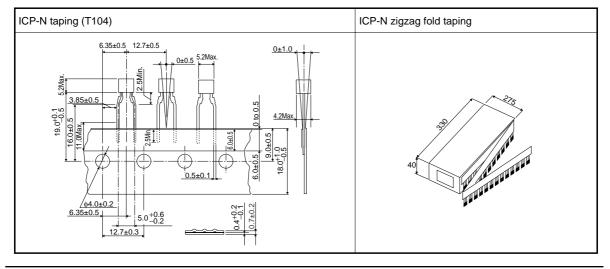
# ●External dimensions (Unit : mm)



# Packaging specifications

	Packaging type	Taping
ICP-N	Symbol	T104
Type	Basic ordering unit (pieces)	3000
ICP-N10/N	0	

# ●Taping specifications (Unit : mm)



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