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).

●Applications

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 (℃)	Storage temperature (℃)
ICP-S0.5	0.5	Fig.1	0.150	50	−55～+125	−55～+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			

●Cutoff characteristics

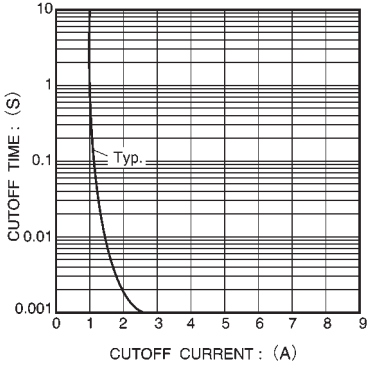


Fig.1 ICP-S0.5

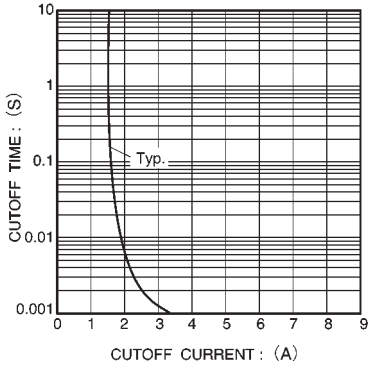


Fig.2 ICP-S0.7

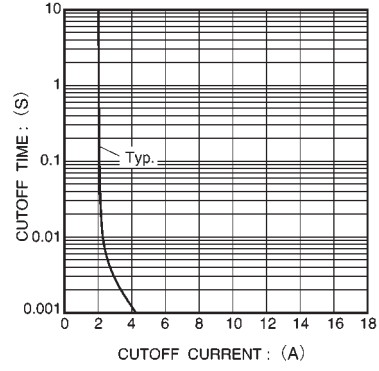


Fig.3 ICP-S1.0

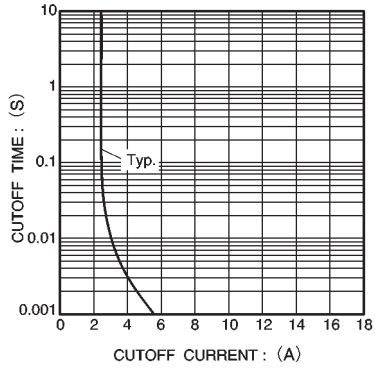


Fig.4 ICP-S1.2

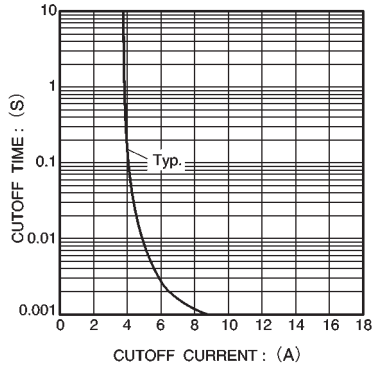


Fig.5 ICP-S1.8

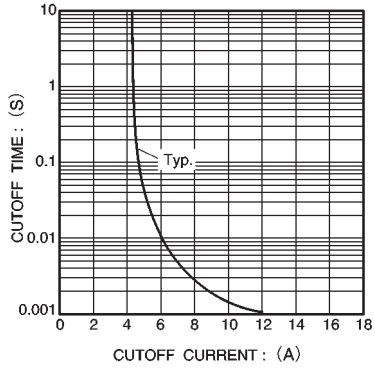
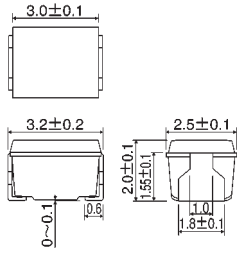


Fig.6 ICP-S2.3

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 (Units: mm)

ICP-S0.5/S0.7/S1.0/S1.2/S1.8/S2.3



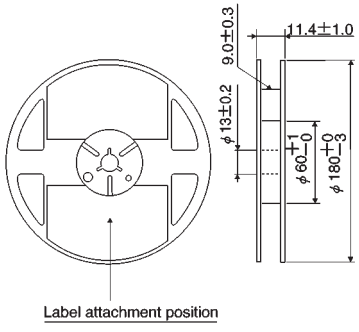
●Packaging specifications

ICP-S Part No.	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		○

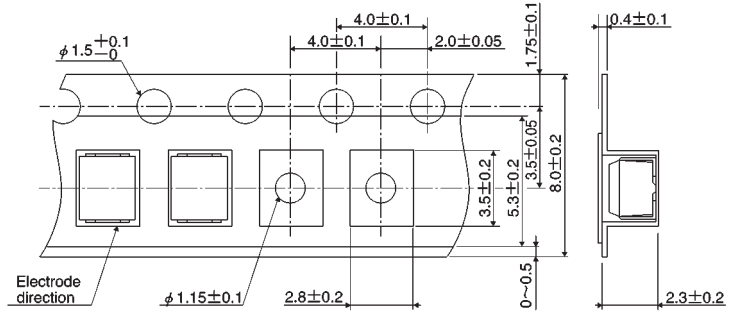
●Taping specifications (Units: mm)

ICP-S taping (TN)

Reel



Taping



Leaded type

ICP-N and ICP-F series

Product name	Rated current (A)	Cutoff characteristics	Internal resistance Typ.(Ω)	Rated voltage (V)	Operating temperature (℃)	Storage temperature(℃)
ICP-N10, ICP-F10	0.4	Fig.1	0.220	50	−55～+125	−55～+125
ICP-N15, ICP-F15	0.6	Fig.2	0.135			
ICP-N20, ICP-F20	0.8	Fig.3	0.100			
ICP-N25, ICP-F25	1.0	Fig.4	0.070			
ICP-N38, ICP-F38	1.5	Fig.5	0.042			
ICP-N50, ICP-F50	2.0	Fig.6	0.035			
ICP-N70, ICP-F70	2.5	Fig.7	0.023			

●Cutoff characteristics

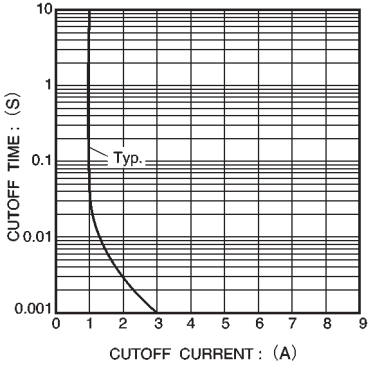


Fig.1 ICP-N10, ICP-F10

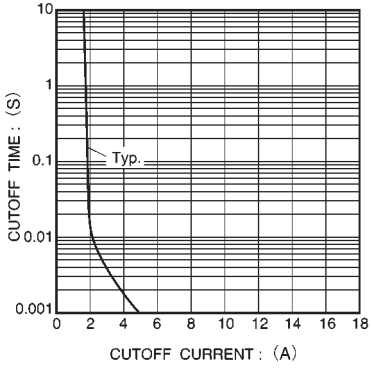


Fig.2 ICP-N15, ICP-F15

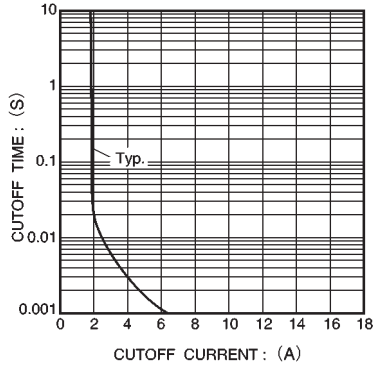


Fig.3 ICP-N20, ICP-F20

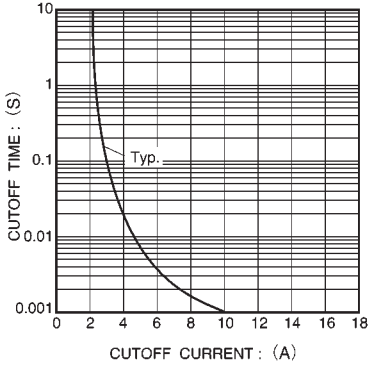


Fig.4 ICP-N25, ICP-F25

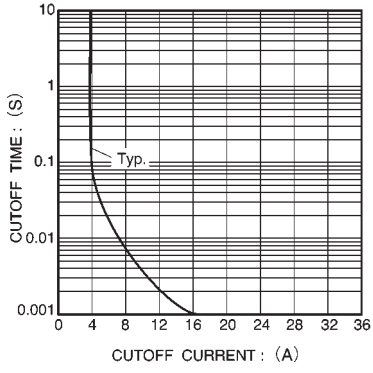


Fig.5 ICP-N38, ICP-F38

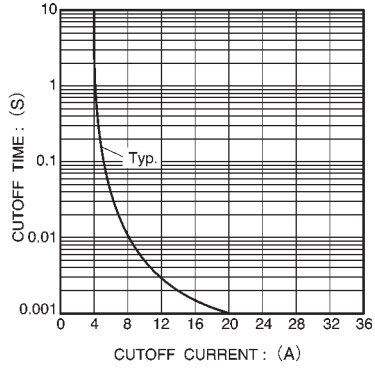


Fig.6 ICP-N50, ICP-F50

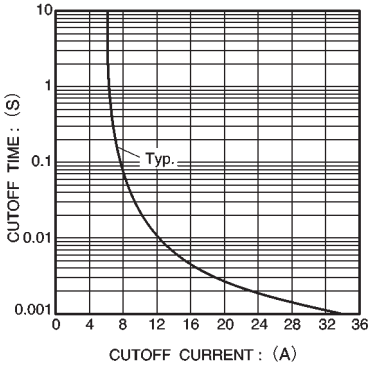


Fig.7 ICP-N70, ICP-F70

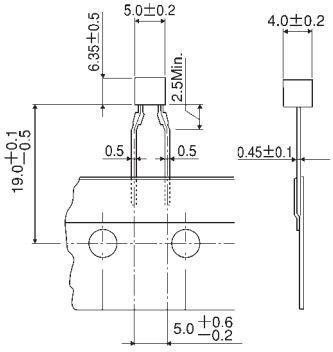
The cutoff characteristics given represent typical values. Technical documentation regarding ways of using circuit protectors is available from your Rohm representative.

●Packaging specifications

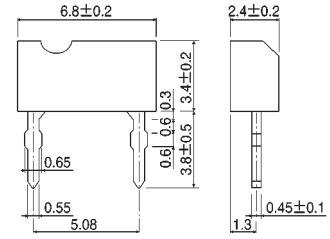
	Packaging type	Taping	Bulk
ICP-N, ICP-F	Symbol	T104	—
Part No.	Basic ordering unit (pieces)	3000	2000
ICP-N10/N15/N20/N25/N38/N50/N70		○	—
ICP-F10/F15/F20/F25/F38/F50/F70		—	○

●External dimensions (Units: mm)

ICP-N10/N15/N20/N25/N38/N50/N70

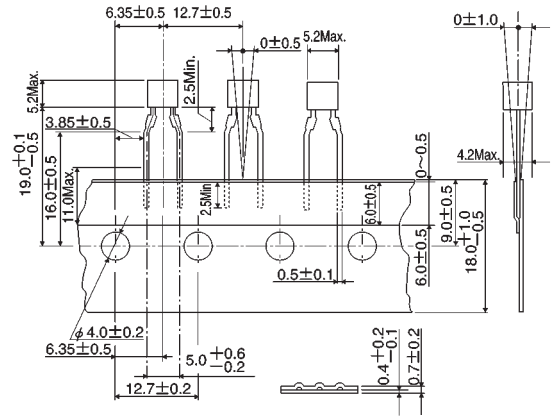


ICP-F10/F15/F20/F25/F38/F50/F70

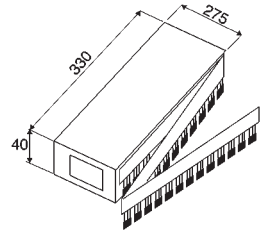


●Taping specifications (Units: mm)

ICP-N taping (T104)



ICP-N zigzag fold taping



Paekaging style for ICP–F is bulk.