

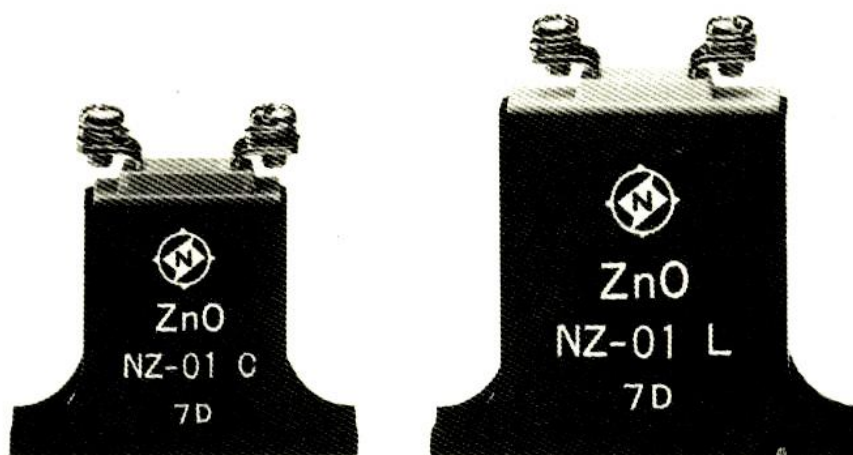
LOW VOLTAGE SURGE ARRESTERS

〈SECONDARY GAPLESS TYPE〉

INDOOR SERVICE
100V, 200V, 400V

NZ-Series

SURGE ABSORBERS



100V·200V

100V·200V·400V

Low voltage Surge Arresters is capable of handling large surge energy in applications for protection of various kinds of electronics and semiconductor elements from switching and induced lightning surges.

NZ-Series SURGE ARRESTERS

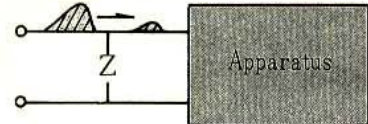
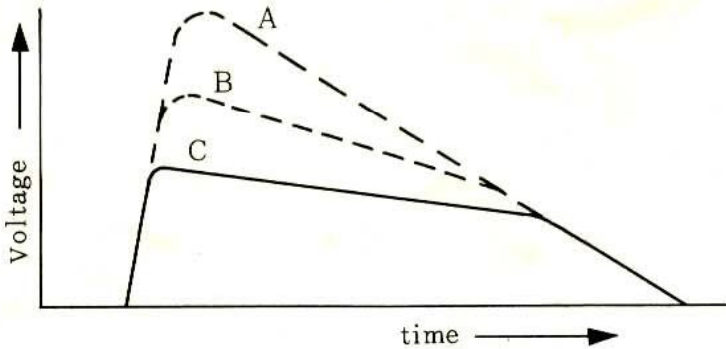
Features

* Very large surge withstanding capability

NZ-01C, NZ-02C 8,000A (8x20 μ s)

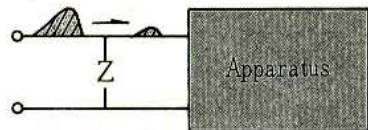
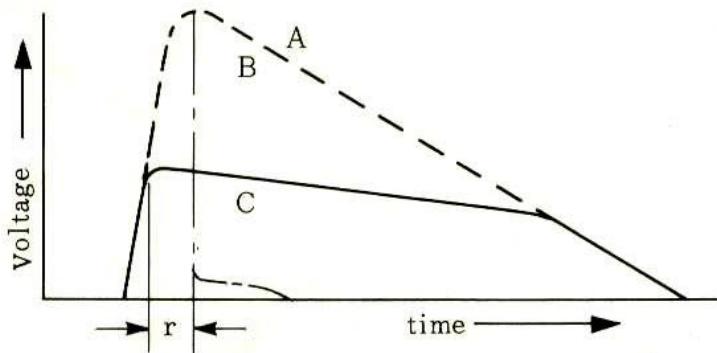
NZ-01L, NZ-02L, NZ-04L 25,000A (8x20 μ s)

* Excellent clamping voltage characteristic



A : Surge voltage
 B : SiC varistor type
 C : SURGE ARRESTER gapless-type
 (Zinc Oxide nonlinear Resistor)

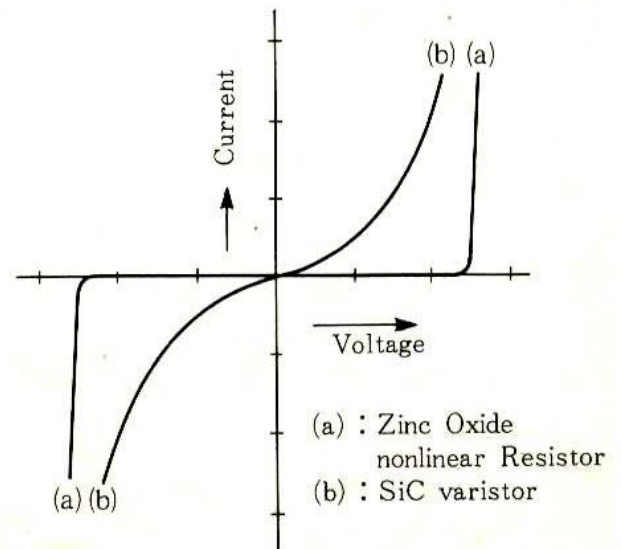
* Fast response to the rapidly rising surge voltage



A : Surge voltage
 B : SiC varistor type (Gap type)
 C : SURGE ARRESTER gapless-type
 (Zinc Oxide nonlinear Resistor)
 r : Lose time

* No follow-on current

* Symmetrical V-1 characteristics



* Compact and light

* Improved reliability

* Direct mounting on boards like a power distribution board available.

NZ-Series SURGE ARRESTERS

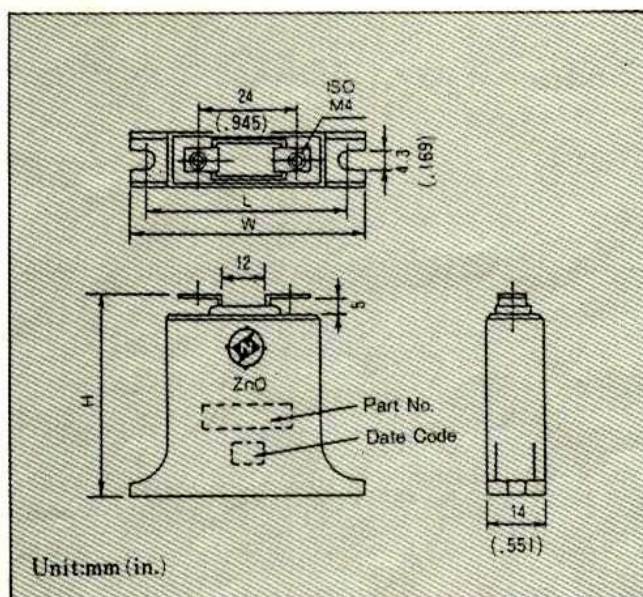
Applications

- Transistor, diode, IC, thyristor and triac semiconductor protection.
- Surge protection in industrial power plant operations.
- Relay and electromagnetic valve surge absorption.
- Surge absorption applications in broadcasting, communications devices, traffic/railroad and agricultural facilities.

Performance

Item Part No.	Varistor Voltage	Maximum Allowable Voltage		Maximum Clamping Voltage	Rated Wattage	Energy	Withstanding Surge Current
	V 1mA (V)	ACrms (V)	DC (V)	(V)	(W)	(J)	8x20μsec. (A)
NZ-01C	240 (216-264)	150	200	395 (V100A)	0.8	95	8,000
NZ-02C	430 (387-473)	275	350	710 (V100A)	0.8	140	8,000
NZ-01L	240 (216-264)	150	200	395 (V200A)	1.2	240	25,000
NZ-02L	430 (387-473)	275	350	710 (V200A)	1.2	400	25,000
NZ-04L	820 (738-902)	510	670	1355 (V200A)	1.2	545	25,000

Dimensions

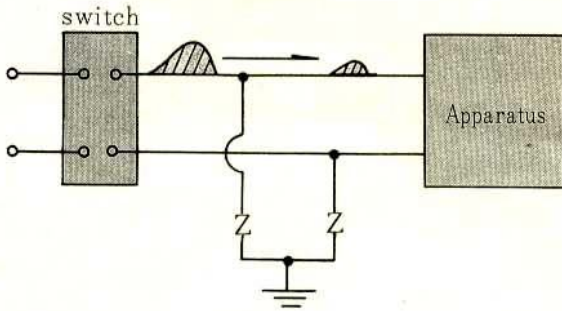


Item Series	W	H	L
NZ-00C	48 ± 1 (1.890 ± 0.039)	42 ± 1 (1.653 ± 0.039)	39 ± 1 (1.535 ± 0.039)
NZ-00L	60 ± 1 (2.362 ± 0.039)	55 ± 1 (2.165 ± 0.039)	51 ± 1 (2.008 ± 0.039)

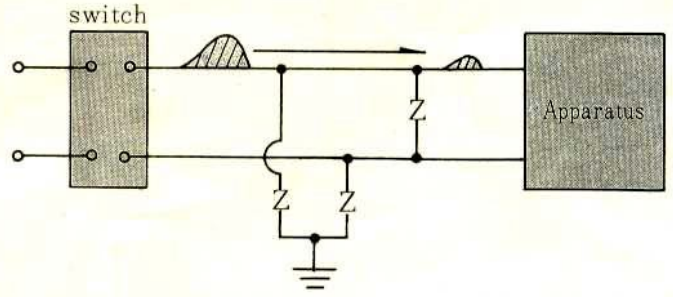
NZ-Series SURGE ARRESTERS

Example

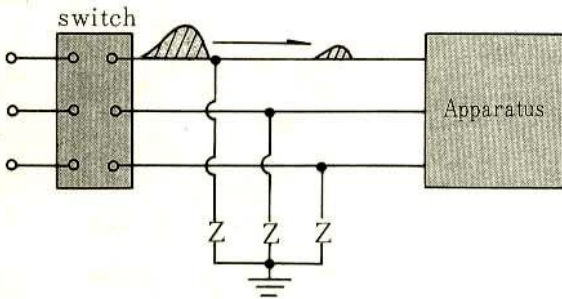
Note : Z - Low Voltage Surge Arrester



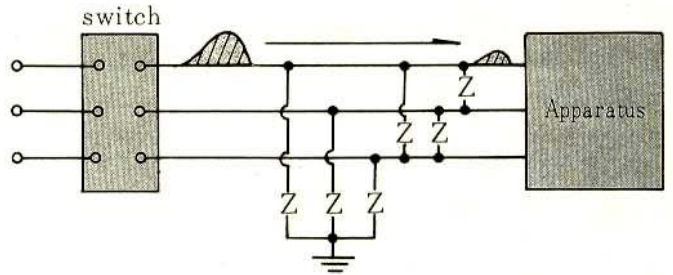
Absorption of Line-Ground Surge in Single-phase System



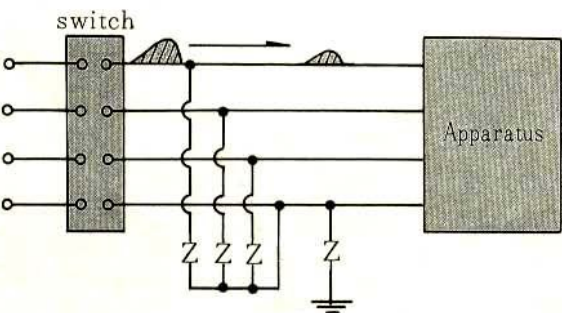
Absorption of Line-Line and Line-Ground Surge in Single-phase System



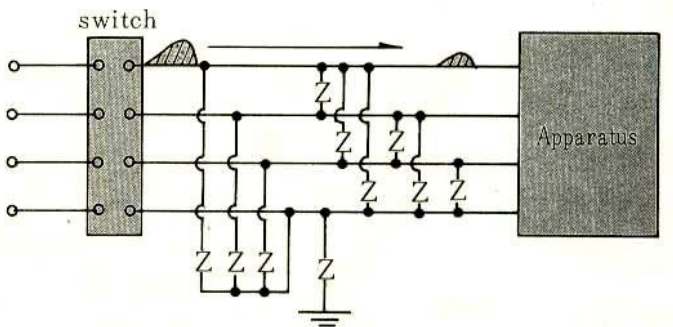
Absorption of Line-Ground Surge in Three-phase System



Absorption of Line-Line and Line-Ground Surge in Three-phase System



Absorption of Line-Ground Surge in Four-phase System



Absorption of Line-Line and Line-Ground Surge in Four-phase System