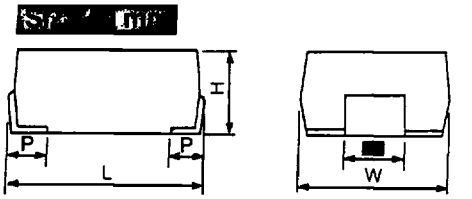
MOLDED CHIP TYPE TRANSIENT/SURGE ABSORBER

FEATURES:

- COMPACT PACKAGE WITHSTANDS HIGH SURGE CURRENT (UP TO 600A)
- LOW CLAMPING VOLTAGE FOR BETTER SURGE PROTECTION
- EXCELLENT RESPONSE AGAINST STEEP SURGE VOLTAGES
- BOTH FLOW AND REFLOW SOLDERING APPLICABLE



W	L	H	P	a
6.2 ±0.4	8.0±0.5	3.2±0.3	1.3±0.3	2.5±0.2

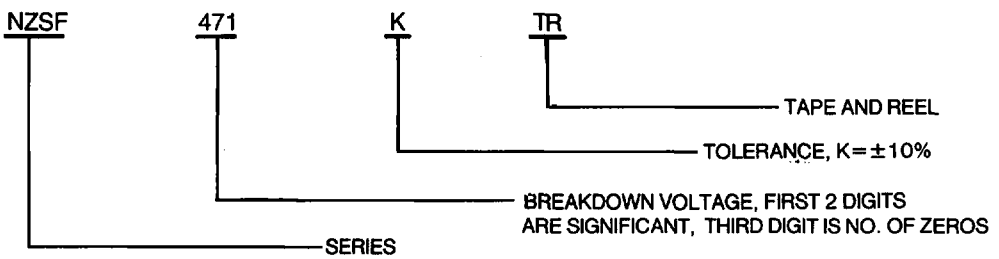
STANDARD PRODUCT TABLE AND SPECIFICATIONS

PART NO.	WORKING VOLTAGE (MAX)		BREAKDOWN VOLTAGE	CLAMPING VOLTAGE	PEAK CURRENT (max)	TRANSIENT ENERGY	TYP. CAPACITANCE
	ACrms	DC	@ 1.0 mA	MAX @ 8/20 mS	8/20 µS, 2 Times	Joules (max)	(pF) @ 1Khz
NZSF220KTR	14 V	18 V	20 ~ 25 V	43 V (2.5 A)	125 A	0.9	1700
NZSF270KTR	17 V	22 V	24 ~ 30 V	53 V (2.5 A)	125 A	1.0	1500
NZSF330KTR	20 V	26 V	30 ~ 36 V	65 V (2.5 A)	125 A	1.2	1200
NZSF390KTR	25 V	31 V	35 ~ 43 V	77 V (2.5 A)	125 A	1.5	1100
NZSF470KTR	30 V	38 V	42 ~ 52 V	93 V (2.5 A)	125 A	1.8	1000
NZSF560KTR	35 V	45 V	50 ~ 62 V	110 V (2.5 A)	125 A	2.2	850
NZSF680KTR	40 V	56 V	61 ~ 75 V	135 V (2.5 A)	125 A	2.5	725
NZSF820KTR	50 V	65 V	74 ~ 90 V	135 V (10 A)	600 A	3.5	500
NZSF101KTR	60 V	85 V	90 ~ 110 V	165 V (10 A)	600 A	4.0	420
NZSF121KTR	75 V	100 V	108 ~ 132 V	200 V (10 A)	600 A	5.0	330
NZSF151KTR	95 V	125 V	135 ~ 165 V	250 V (10 A)	600 A	6.0	230
NZSF201KTR	130 V	170 V	185 ~ 225 V	340 V (10 A)	600 A	8.0	140
NZSF221KTR	140 V	180 V	198 ~ 242 V	360 V (10 A)	600 A	9.0	135
NZSF241KTR	150 V	200 V	216 ~ 264 V	395 V (10 A)	600 A	10.0	120
NZSF271KTR	175 V	225 V	247 ~ 303 V	455 V (10 A)	600 A	12.0	105
NZSF361KTR	230 V	300 V	324 ~ 396 V	595 V (10 A)	400 A	12.0	85
NZSF391KTR	250 V	320 V	351 ~ 429 V	650 V (10 A)	400 A	12.0	65
NZSF431KTR	275 V	350 V	387 ~ 473 V	710 V (10 A)	400 A	14.0	75
NZSF471KTR	300 V	385 V	423 ~ 517 V	775 V (10 A)	400 A	14.0	55

CHARACTERISTICS:

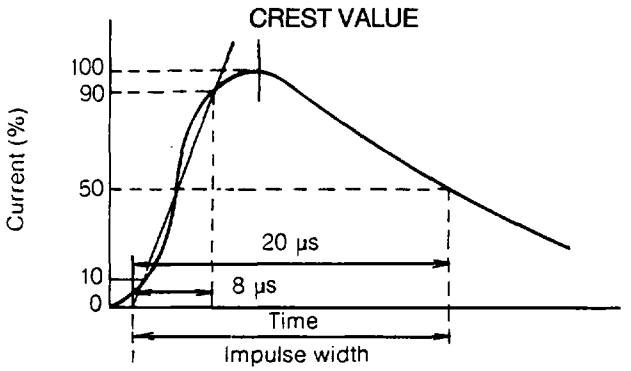
- TEMPERATURE COEFFICIENT OF VARISTOR VOLTAGE: 0 ~0.05% / °C (+25 to +85°C)
- OPERATING TEMPERATURE RANGE: -40 ~+ 85°C.
- STORAGE TEMPERATURE RANGE: -40 ~ +125°C.
- WORKING VOLTAGE (max.): MEASURED AT 100µA LEAKAGE CURRENT

PART NUMBERING SYSTEM: (SEE PRODUCT TABLE)



ENVIRONMENTAL CHARACTERISTICS:

- STANDARD IMPULSE WAVE FORM (8/20 μS)

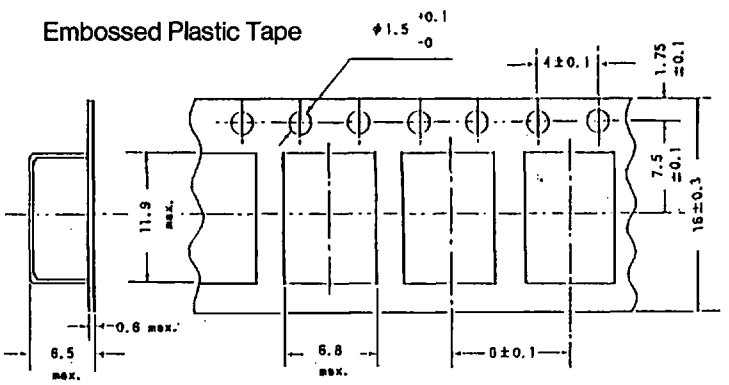


- Surge Life: After 10,000 times continuous application of the surge impulse wave form shown above within the interval of 10 seconds at room temperature, breakdown voltage shall be within range specified.
- High Temperature Load Life : After 1,000 hours at 85°C with application of the specified max. working voltage, breakdown voltage shall be within range specified.
- Humidity Load Life : After 1,000 hours at 40°C and 90 to 95%RH with application of the specified max. working voltage, breakdown voltage shall be within range specified.

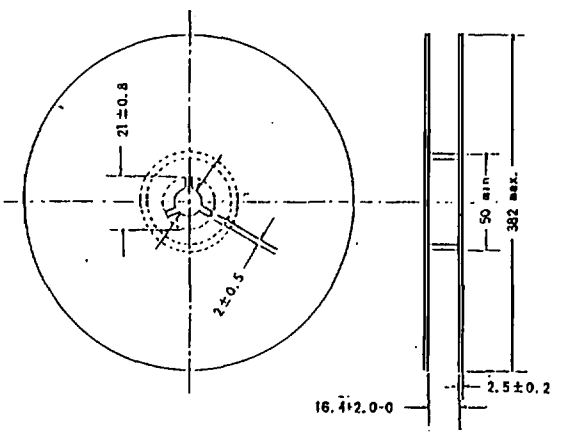
BREAKDOWN VOLTAGE	SURGE CURRENT
22 to 68V	18 Amps
82 to 270V	50 Amps
360 to 470V	40 Amps

TAPING SPECIFICATIONS

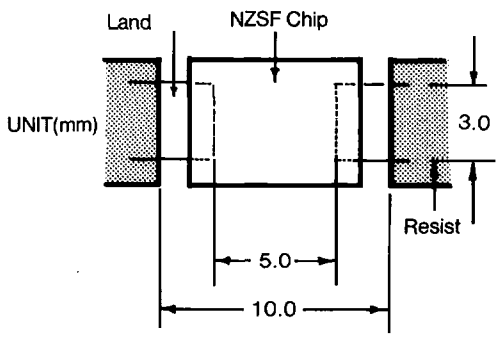
Embossed Plastic Tape



Reel : 2,000 pcs/Reel



RECOMMENDED LAND PATTERN



1. Recommended soldering conditions
   (1) Flow soldering : 260°C (5 seconds max.)
   (2) Reflow soldering : 230°C (10 seconds max.)
2. Mounting
   (1) Pressure to the component at pick and place should be less than 9.8N.
   (2) The bottom of resin portion of component should be fixed to circuit board by adhesive.