

FEATURES

- ULTRA HIGH CURRENT (UP TO 20,000A @ 8/20 μ S)
- CASE SIZE 2332 (6.0MM X 8.3MM X 8.3MM)
- LOW CAPACITANCE AND INSERTION LOSS
- OPERATING TEMPERATURE RANGE -55°C ~ +105°C
- UL LISTED - ISOLATED LOOP CIRCUIT PROTECTORS-COMPONENTS
- COMPATIBLE WITH REFLOW SOLDERING (+260°C)
- RoHS COMPLIANT

RoHS
Compliant
includes all homogeneous materials*

*See Part Number System for Details



SPECIFICATIONS

Type	Breakdown Voltage ^{1, 2} (100V/S)	Breakdown Voltage Tolerance (V)	Impulse Spark-over Voltage ^{1, 2} (1KV/μs)	Impulse Discharge Current ³ (8/20μs)	Insulation Resistance	Capacitance (1MHz, 0.5VDC)	Arc Voltage 1A	Application	Circuit
NGTM2332M091TR20F	90V	72 ~ 108	≤ 600V	20,000A	≥1GΩ @ 50V	≤1.5pF	~ 8V	DC Power	1  2
NGTM2332M351TR20F	350V	280 ~ 420	≤ 650V		≥1GΩ @ 100V		~ 15V	DC Power	1  2
NGTM2332M471TR20F	470V	376 ~ 564	≤ 850V				~ 15V	AC Power	1  2
NGTM2332M601TR20F	600V	480 ~ 720	≤ 950V				~ 15V	AC Power	1  2
NGTM2332M801TR20F	800V	640 ~ 960	≤ 1200V				~ 15V	AC Power	1  2
NGTM2332M152TR10F	1500V	1200 ~ 1800	≤ 2500V	10,000A			~ 15V	AC Power	1  2
NGTM2332M252TR05F	2500V	2000 ~ 3000	≤ 4000V	5,000A			~ 30V	AC Power	1  2
NGTM2332M362TR05F	3600V	2800 ~ 4320	≤ 5000V	5,000A			~ 30V	AC Power	1  2

Contact NIC regarding availability of values not shown.

- Parameters are based on ITU-T K.12
- The V-T waveform of the DC Breakdown Voltage and Impulse Spark-over Voltage must lie between the shades areas (see graph page2)
- Total Impulse Discharge Current @ 8/20 μ s by IEC 6100-4-5, 10 shots

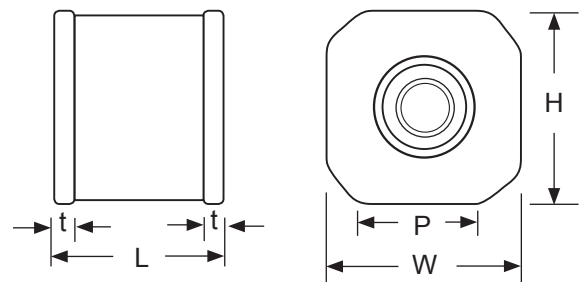
UL Listing:

NIC COMPONENTS CORP
Surge Protection Devices - Component
RE: VZCA2.E357747



DIMENSIONS (mm)

L	W	H	P	t
6.0 ± 0.2	8.3 ± 0.2	8.3 ± 0.2	4.2 ± 0.1	0.5 ± 0.05

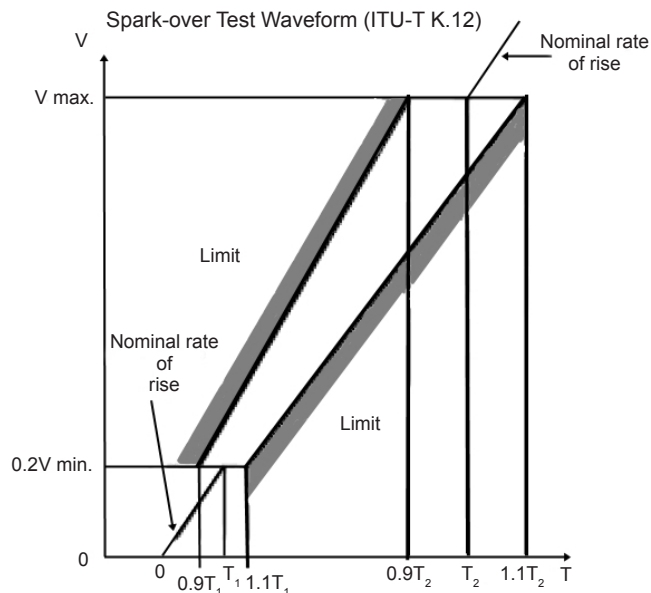


PART NUMBERING SYSTEM

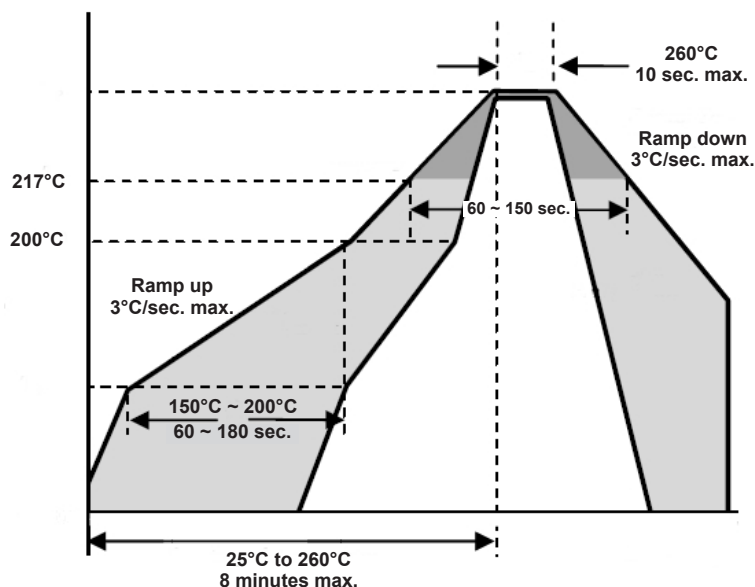
NGTM 2332 M 601 TR 20 E

- RoHS Compliant
- 20=20KA, 10=10KA, 05=5KA Impulse Discharge Current
- TR = Tape & Reel
- Voltage Code: 601 = 600 Volts
- Tolerance Code (M = ±20%)
- Case Size Code (see dimensions table)
- Series



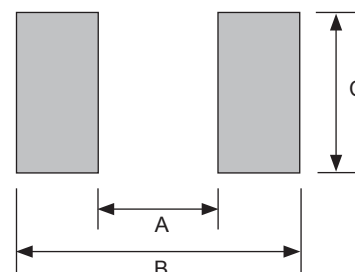


REFLOW SOLDERING PROFILE



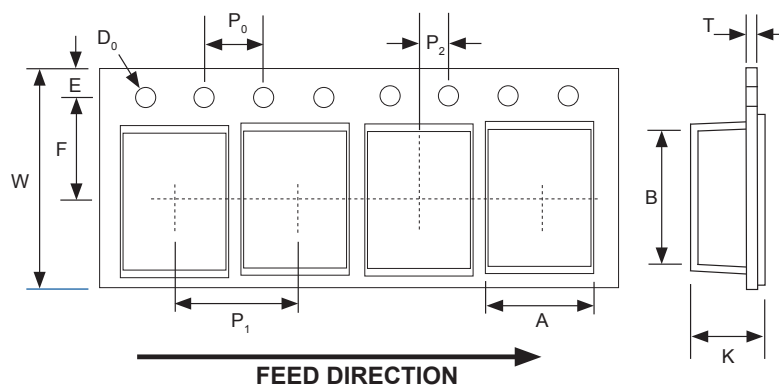
LAND PATTERN DIMENSIONS (mm)

Case Size	A	B	C
3223	4.5	7.95	8.0



EMBOSSED PLASTIC CARRIER DIMENSIONS (mm)

Case Size	A	B	D ₀	E	F	P ₀	P ₁	P ₂	T	K	W
2332	6.5 ± 0.2	8.6 ± 0.1	1.50 ^{+0.1/-0}	1.75 ± 0.1	7.50 ± 0.1	4.0 ± 0.1	12.0 ± 0.1	2.0 ± 0.1	0.55 ± 0.05	8.6 ± 0.2	16.0 ± 0.4



REEL DIMENSIONS (mm) AND QUANTITY

Case Size	A	B	C	W	Qty
2332	330 ± 2.0	13.0 ± 0.15	100 ± 2.0	16.5 ± 0.5	500

