ALTERNATION HISTORY RECORDS变更记录

Date 日期	Version 版本	**Mark** 标记	**Page** 页码	**Description** 描述	**Drafter** 制定者	Approver 审批者
2024-06-24	A	/	/	First release	Robin Xiong	/

1. Features:

The Gas Discharge Tube (GDT) is a protective device which is filled with certain proportion of noble gas, or mixed gas or other discharge media in the space between metal electrodes and metalized ceramics, and then sealed at high temperature to form a single gap or multi-gap switch type protective device. When the protected circuit or equipment suffers to surge, GDT will change from high impedance state to low impedance state and release the surge energy to reduce the residual voltage of the circuit, and then protect the equipment or human body from the hazard of transient overvoltage.

Fast Response
Stable Performance Over Surface Life
High Current Rating
Low Capacitance
High Insulation Resistance
RoHS & REACH Compliant
MSL:Level 1

2. Part Number System

AL 4532 -200 TR

- AL — LOGO(2.1)
- 4532 — Series (2.2)
- 200 — DC(2.3)
- TR — Tape & Reel (2.4)

2.1 LOGO Name：

Code	AL
LOGO	Aillen

2.2 Size:

Code	4532
Size	4.5*3.2

2.3 DC Breakdown Voltage:

Code	200
Voltage(VDC)	**200**±20%

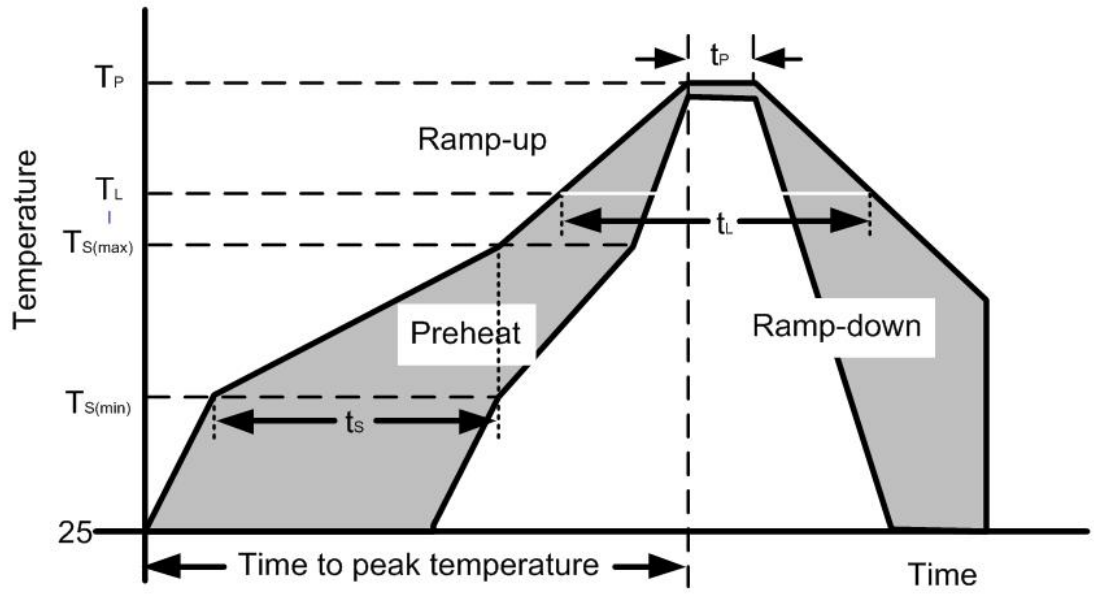
2.4 Package

Code	TR
Package	Tape & Reel

3. Product Information

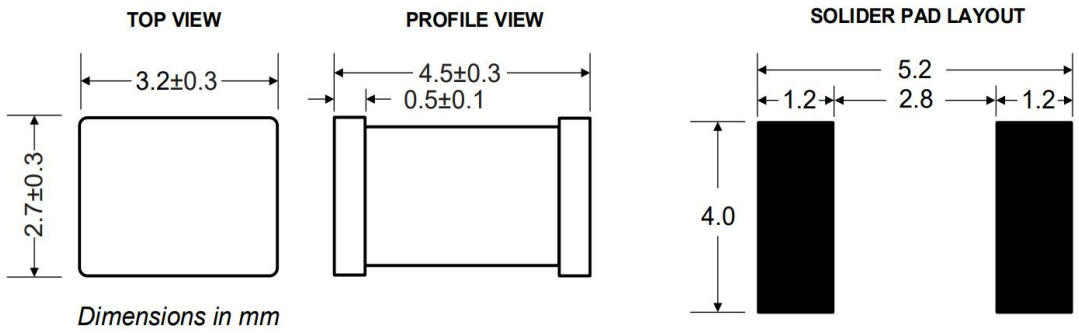
3.1 Reflow Profile

Reflow Condition		Pb – Free assembly
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (ts)	60 – 180 secs
$T_{S(max)}$ to T_L——Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		$260^{+0/-5}$ °C
Time within actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		260°C

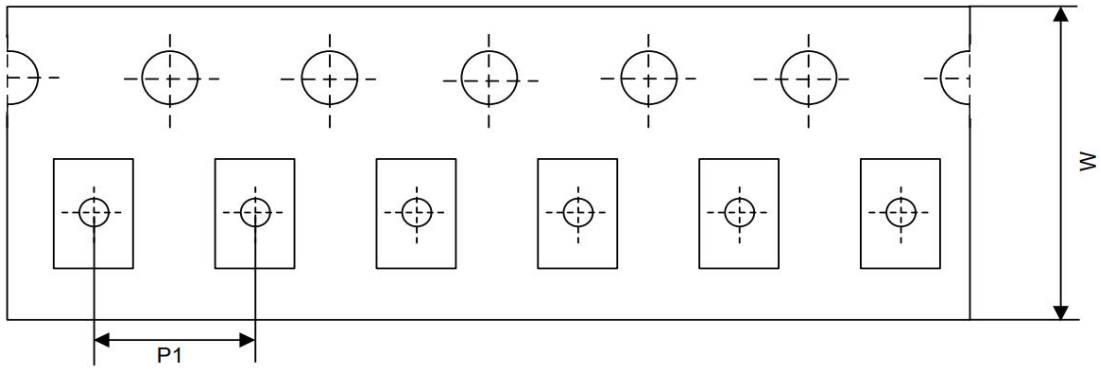


3.2 Dimensions

Unit: mm



3.3 Packing



Item	P	W
Dimensions/mm	**8.0±0.1**	**12.0±0.3**

4 . Specifications(accordance with ITU-T Rec. K.12 and IEC 61643-311.)

Model Name	DC Breakdown Voltage	Maximum Impulse Breakdown Voltage 1KV/μs	Maximum Impulse Discharge Current 8/20μs	Minimum Insulation Resistance	Maximum Capacitance
	(V)	(V)	(KA)	（GΩ）	（pf）
	100~2000V/S	1KV/μs	10 times	Note 1	1MHz
4532-200	200±20%	600	2	1	0.1

5 .Technical Term or Test methods

5.1Storage onditions（-40℃~85℃）

Storage conditions without voltage applied

Please store products in the environments of dry,ventilation and no-corrosion,period

One year.

6.2 Operational temperature（-55℃~125℃）

Gas discharge tubes shall be capable of withstanding during operational conditions without damage