

Posistor® For Circuit Protection

1. Part Numbering

(Part Nu	umber)					
PT	GL	04	AS	560	K	6B51	B0
Product ID	Series	Dimensions	Temperature Characteristics	Resistance	Resistance Tolerance	Individual Specifications	Packaging

2. Ratings

Bulk Part Number	Max.	*1 Resistance	*2 Max.	*3 Hold o	current	*4 Trip c	urrent	Dir	nensio (mm)	ns
Taping Part Number	voltage	Value at+25ºC	Current	+60°C	+25°C		-10°C	D	Н	dia
PTGL04AS560K6B51B0										
PTGL04AS560K6B51A0		560hm±10%	0.5A	74mA	94mA	125mA	147mA	5.5	10.5	0.6
PTGL05AS270K6B51B0										
PTGL05AS270K6B51A0		27ohm±10%	1.0A	106mA	134mA	178mA	209mA	5.5	10.5	0.6
PTGL07AS150K6B51B0								4		
PTGL07AS150K6B51A0	140V	15ohm±10%	1.5A	148mA	187mA	249mA	292mA	7.3	12.3	0.6
PTGL09AS120K6B51B0	rms.									
PTGL09AS120K6B51A0		12ohm±10%	2.0A	192mA	244mA	324mA	380mA	9.3	14.3	0.6
PTGL09AS7R6K6B51B0										
PTGL09AS7R6K6B51A0		7.60hm±10%	2.2A	227mA	287mA	382mA	447mA	9.3	14.3	0.6
PTGL12AS4R7K6B51B0										
PTGL12AS4R7K6B51A0		4.7ohm±10%	3.5A	310mA	393mA	523mA	613mA	11.5	16.5	0.6

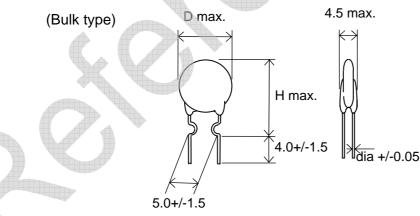
*1 The resist. value is measured at a point of max. 2mm from the end of lead crimp.

*2 Shows the maximum current value which may be repeatedly introduced into Posistor when the circuit runs abnormally.

*3 Shows the maximum current value which may be continuously introduced into Posistor when the circuit runs normally at each ambient temperature.

*4 Shows the minimum current value which flows the circuit when Posistor protects it from over load at each ambient temperature.

3. Dimensions (mm)



(Taping type : Shown in Taping specification.)

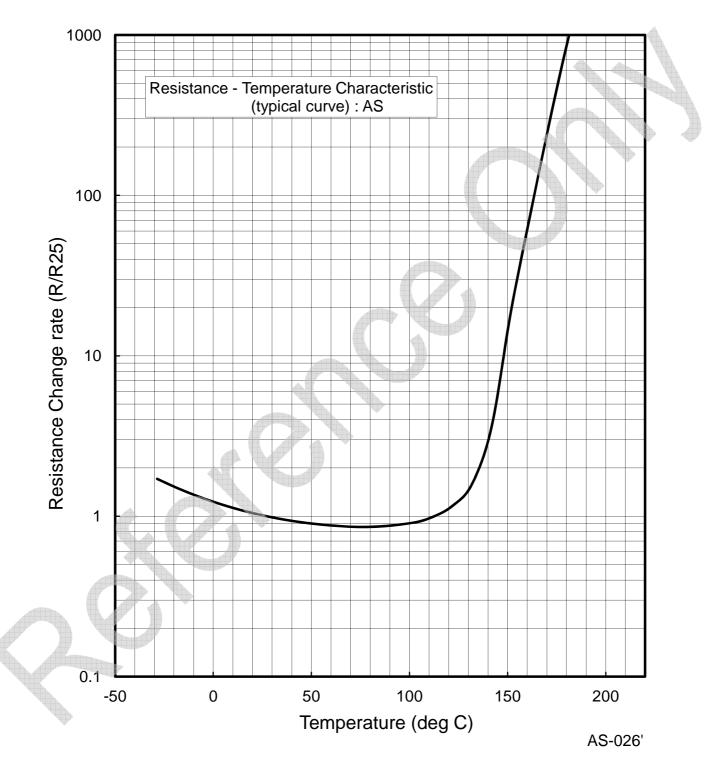
Note)

Some part of resin covering lead wire of Posistor may come off by some outside shock on the root of lead wire, but Posistor can be used normally for electrical and reliability characteristics.

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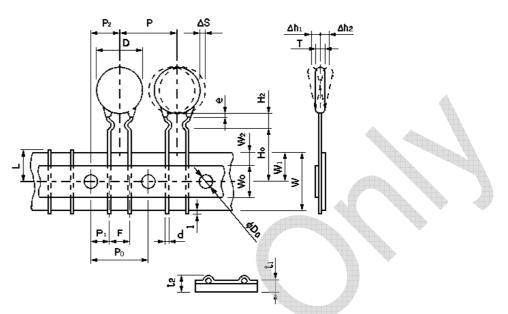






Taping Specification

1. Dimensions of Taping



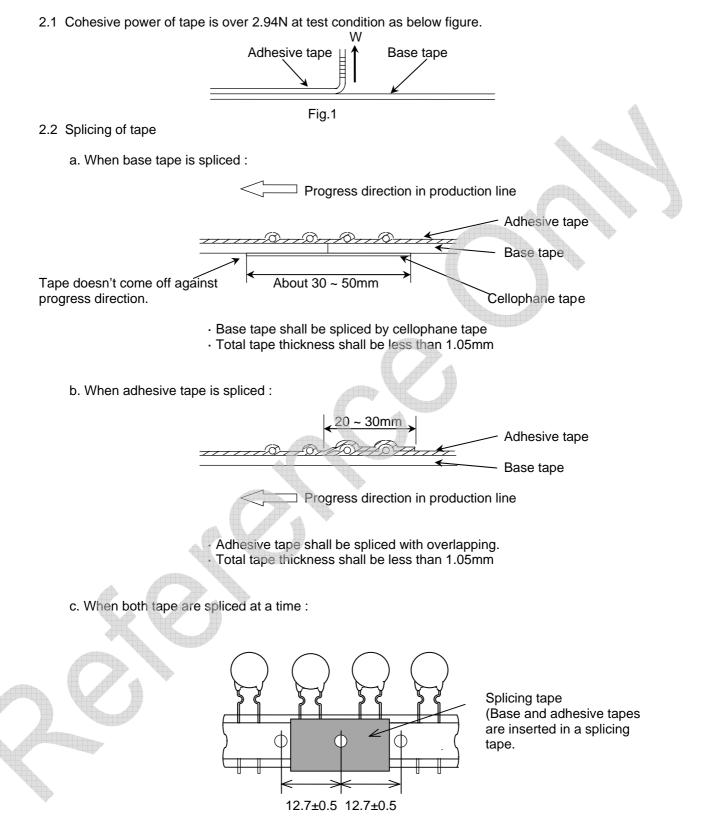
	ltem	Code	Dimensions	Note
	Pitch of Component	Р	12.7	Tolerance is determined by ΔS
	Pitch of Sprocket Hole	P0	12.7 ± 0.3	
	Lead Spacing	F	5.0 ^{+0.8} - 0.3	
	Length from Hole Center to Component	P2	6.35 ± 1.3	Deviation in the feeling direction
	Length from Hole Center to Lead	P1	3.85 ± 0.8	
	Body Diameter	D	Refer to "2.Dimensions"	
	Body Thickness	Т	Refer to "2.Dimensions"	
	Deviation along Tape. Left or Right	ΔS	0 ± 1.5	Including the inclination caused by lead bending.
	Carrier Tape Width	W	18.0 ± 0.5	
	Position of Sprocket Hole	W1	9.0 ^{+0.5} -0.75	Deviation of tape width.
	Lead Distance between Reference and	H0	16.0 ± 1.0	
	Bottom Planes	H2	6.0 max.	
	Overflow of Lead	I	-0.5 ~ +1.0	
	Diameter of Sprocket Hole	D0	4.0 ± 0.2	
	Lead Diameter	d	Refer to "2.Dimensions"	
	Total Tape Thickness	t1	0.6 ± 0.3	t2 = 2.0 max.
4	Deviation across Tape	∆h1,∆h2	1.5 max	
	Portion to cut in Case of Defect	L	11.0 ⁺⁰ -2.0	
	Hold Down Tape Width	W0	11.0 min.	
	Hold Down Tape Position	W2	4.0 max.	
	Coating Extension on Lead	е	Up to the center of crimp	

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This information may be changed without a previous notice.



2. Splicing way of tape



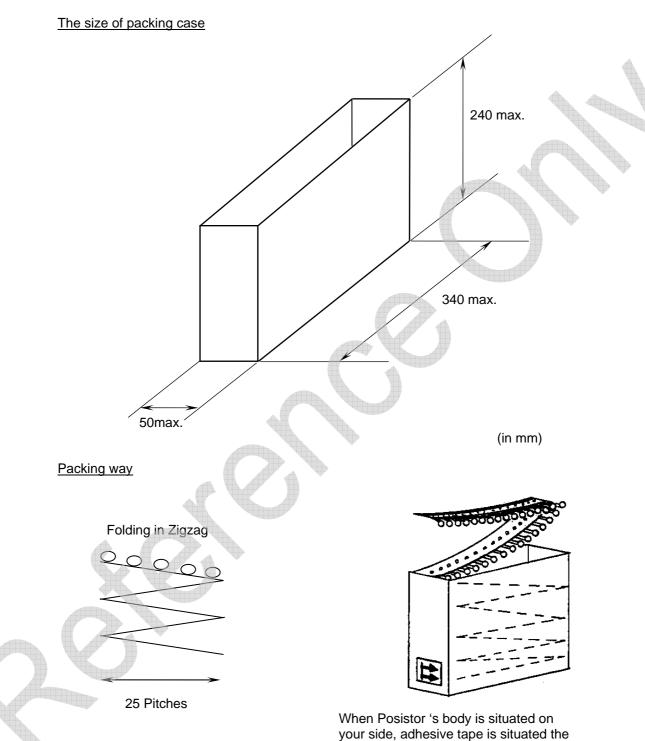
(in mm)

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2.3 Packing specification (Ammo Pack).

The tape with Posistor is folded each 25 pitches and packed in zigzag into a packing case, when body of Posistor is pilled on other body under it. Standard quantity in a case are 1500pcs..



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upside.



Notice for use

▲ Caution

- 1. This product is designed for application which is used under ordinary environment.(room temperature, normal humidity, normal pressure) Do not expose this to the following environments, because all these factor can deteriorate the characteristic of this and can cause failure or burn out.
 - (1) Corrosive gas or deoxidizing gas (Cl2, H2S, NH3, SOx, NOx etc.)
 - (2) Volatile, flammable gas
 - (3) Dusty place
 - (4) Place in a vacuum, reducing or putting pressure
 - (5) Place in splashed water, or high humidity and dewing place
 - (6) Salt water, oil, chemical liquid and solvent
 - (7) Vibratile place
 - (8) Other place equivalent to the above
- 2. Limitation of Applications

Please contact us before using our products for the under-mentioned applications requiring especially high reliability in order to prevent defects which might directly cause damage to other party's life body or property(listed below).

(1)Aircraft equipment
(2)Aerospace equipment
(3)Undersea equipment
(4)Power plant control equipment
(5)Medical equipment
(6)Transportation equipment(automobiles, trains, ships, etc.)

- (7)Traffic signal equipment (8)Disaster prevention / Crime prevention equipment
- (9)Data-processing equipment (10)Applications of similar complexity or with reliability requirements comparable to the applications listed in the above.
- 3. Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

Notice

- 1. Do not apply abnormal voltage/current exceeding the specified maximum value. Because they may deteriorate or destroy PTC element.
- 2. Use this product within the specified temperature. A higher temperature may deteriorate the characteristic or material.
- 3. When this product is operated, temperature of some area may be over 100°C to 160°C. Please make sure that surrounding parts and inserting material can withstand the temperature. If the surrounding part and material is kept under such condition, they may be deteriorated or may produce harmful gas(Cl2, H2S, NH3, SOx, NOx etc.). And, such harmful gas may deteriorate the element.
- 4. The resin coating of this product is not for insulating purpose. Keep an adequate insulating distance to surrounding components.
- This product does not have waterproof construction. A splashed water may cause failure mode such as deterioration of characteristic or current leak.
 So, Do NOT apply cleaning to immerse it into water or any solvent.
- 6. If you coat this product by resin, please evaluate the qualityl of this product before you use it. The stress of fource which is caused by coating materials or heat cycles may cause failure mode such as deterioration of characteristic or current leak in worst case.
- 7. This product is using the solder of 221+/-5 °C of melting points, in order to connect ceramics with a lead wire. Do not heat up a terminal area of this product over 180 °C.
- 8. The ceramic element of this product is fragile, and care must be taken not to load a excessive pressforce or not to give a shock at handling. Such forces may cause cracking or chipping.

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- 9. Do not apply an excessive force to the lead. Otherwise, it may cause break off the junction between
- lead and element, or may crack element. Therefore, hold of element side lead wire is recommended when lead wire is bent or cut.
- 10. When the lead of this product is soldered, pay attention as follows to avoid the decline of element characteristic or break down the element.
 - (1) Use Rosin type flux or non-activated flux(the content of chlorine shall be less than 0.2%)
 - (2) Do not dip the body into flux. (Flux shall be coated to lead wire only for soldering.)
 - (3) The pre-heat up should be conducted without melting the soldering of this product.
- 11. Do not apply tensile force or separating force to lead wire at soldering.
- 12. Do not touch the resin case by soldering iron. The soldering point shall be min. 5 mm away from the root of lead wire. Please solder the following conditions.
 - Iron Tip Temperature : 360 degree C max.
 - Soldering Time : 4 seconds max. / 1 terminal
 - Number of Soldering : 1
- 13. To keep solderability of product from declining, following storage condition is recommended.
 - (1) Storage condition Temperature : -10 to +40°C

Humidity : less than 75%RH(not dewing condition)

- (2) Term : Please use this product within 6 months after shipment by first-in and first-out stocking system.
- (3) Handling after unpacking of the minimum package : Reseal it promptly or store it seal open inside

a sealed container with a drying agent.

(4) Place : Do not store this product in corrosive gas(SOx,Cl etc) or under sun-light.