

**Product Search Data Sheet** 

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## PTGL4SAS100K2B51B0



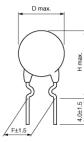


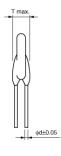




### Appearance & Shape







(in mm)



#### **Features**

- 1. Useful protective threshold current range with a wide temperature range.
- 2. Small fluctuation in the circuit due to resistance tolerance +/-
- 3. Quick operating time due to small size compared with conventional products.
- 4. Best suited to meet the requirements of power supply and motor protector. Error-free operation is assured by rush current.
- 5. Circuit is protected until current is turned off.
- 6. Restores the original low resistance value automatically once the overload is removed.
- 7. Non-contact design leads to long life and no noise. Durable and strong against mechanical vibration and shock because it is a solid element.
- 8. Lead (Pb) is not contained in the terminations.



### **Applications**

Automotive Usage	Infotainment
Limited Usage	Automotive Grade



## Packaging Information

Packaging	Specifications	Standard Packing Quantity
В0	Bulk(Bag)	500

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# PTGL4SAS100K2B51B0



## **Specifications**

Max. Voltage         30V           Hold Current(25°C)         212mA           Measure Condition of Hold Current         (at +25°C)           Hold Current (2)         127mA           Measure Condition of Hold Current (3)         89mA           Measure Condition of Hold Current (3)         (at +105°C)           Trip Current(25°C)         282mA           Measure Condition of Trip Current (2)         359mA           Measure Condition of Trip Current(2)         (at -40°C)           Max. Current         2A           Resistance (25°C)         10Ω           Resistance Value Tolerance (at 25°C)         ±10%           Curie Point(typ.)         130°C           Power Consumption(typ)         1.3W           Operating Temperature Range         40°C to 125°C           D: Outer Dimension         4.5mm           Thickness         3.5mm           H: Height         9.5mm           F: Lead Space         5mm           d: Lead Diameter         0.6mm           Shape         Lead		
Measure Condition of Hold Current (2) Hold Current (2) Hold Current (3) Measure Condition of Hold Current (3) Measure Condition of Hold Current (3)  Measure Condition of Hold Current (3)  Measure Condition of Hold Current (3)  Trip Current(25°C)  Reasure Condition of Trip Current (at +25°C)  Trip Current(2)  Measure Condition of Trip Current(2)  Max. Current  2A  Resistance (25°C)  Resistance Value Tolerance (at 25°C)  Curie Point(typ.)  1.3W  Operating Temperature Range  D: Outer Dimension  H: Height P: Lead Space d: Lead Diameter  127mA  (at +25°C)  (at +85°C)  Resistance (at +25°C)  10Ω  139mA  140°C)  150°C  10Ω  150°C	Max. Voltage	30V
Current         (at +25°C)           Hold Current (2)         127mA           Measure Condition of Hold Current (3)         89mA           Measure Condition of Hold Current (3)         (at +105°C)           Trip Current(25°C)         282mA           Measure Condition of Trip Current(2)         (at +25°C)           Trip Current(2)         359mA           Measure Condition of Trip Current(2)         (at -40°C)           Max. Current         2A           Resistance (25°C)         10Ω           Resistance Value Tolerance (at 25°C)         ±10%           Curie Point(typ.)         130°C           Power Consumption(typ)         1.3W           Operating Temperature Range         -40°C to 125°C           D: Outer Dimension         4.5mm           Thickness         3.5mm           H: Height         9.5mm           F: Lead Space         5mm           d: Lead Diameter         0.6mm	Hold Current(25°C)	212mA
Measure Condition of Hold Current (2) (at +85°C)   Hold Current (3) 89mA   Measure Condition of Hold Current (3) (at +105°C)   Trip Current(25°C) 282mA   Measure Condition of Trip Current (2) (at +25°C)   Trip Current(2) 359mA   Measure Condition of Trip Current(2) (at -40°C)   Max. Current 2A   Resistance (25°C) 10Ω   Resistance Value Tolerance (at 25°C) ±10%   Curie Point(typ.) 130°C   Power Consumption(typ) 1.3W   Operating Temperature Range -40°C to 125°C   D: Outer Dimension 4.5mm   Thickness 3.5mm   H: Height 9.5mm   F: Lead Space 5mm   d: Lead Diameter 0.6mm		(at +25°C)
Current (2)  Hold Current (3)  Measure Condition of Hold Current (3)  Trip Current(25°C)  Measure Condition of Trip Current (2)  Trip Current(2)  Measure Condition of Trip Current(2)  Measure Condition of Trip Current(2)  Max. Current  2A  Resistance (25°C)  Resistance Value Tolerance (at 25°C)  Curie Point(typ.)  130°C  Power Consumption(typ)  1.3W  Operating Temperature Range  D: Outer Dimension  Thickness  3.5mm  H: Height  9.5mm  F: Lead Space  d: Lead Diameter  Max A	Hold Current (2)	127mA
Measure Condition of Hold Current (3)  Trip Current(25°C)  282mA  Measure Condition of Trip Current  Trip Current(2)  Measure Condition of Trip Current(2)  Measure Condition of Trip Current(2)  Max. Current  2A  Resistance (25°C)  Resistance Value Tolerance (at 25°C)  Curie Point(typ.)  130°C  Power Consumption(typ)  1.3W  Operating Temperature Range  D: Outer Dimension  Thickness  3.5mm  H: Height  9.5mm  F: Lead Space  d: Lead Diameter  0.6mm		(at +85°C)
Current (3)       (at +105°C)         Trip Current(25°C)       282mA         Measure Condition of Trip Current(2)       (at +25°C)         Trip Current(2)       359mA         Measure Condition of Trip Current(2)       (at -40°C)         Max. Current       2A         Resistance (25°C)       10Ω         Resistance Value Tolerance (at 25°C)       ±10%         Curie Point(typ.)       130°C         Power Consumption(typ)       1.3W         Operating Temperature Range       -40°C to 125°C         D: Outer Dimension       4.5mm         Thickness       3.5mm         H: Height       9.5mm         F: Lead Space       5mm         d: Lead Diameter       0.6mm	Hold Current (3)	89mA
Measure Condition of Trip Current (at +25°C)   Trip Current(2) 359mA   Measure Condition of Trip Current(2) (at -40°C)   Max. Current 2A   Resistance (25°C) 10Ω   Resistance Value Tolerance (at 25°C) ±10%   Curie Point(typ.) 130°C   Power Consumption(typ) 1.3W   Operating Temperature Range -40°C to 125°C   D: Outer Dimension 4.5mm   Thickness 3.5mm   H: Height 9.5mm   F: Lead Space 5mm   d: Lead Diameter 0.6mm		(at +105°C)
Current       (at +25°C)         Trip Current(2)       359mA         Measure Condition of Trip Current(2)       (at -40°C)         Max. Current       2A         Resistance (25°C)       10Ω         Resistance Value Tolerance (at 25°C)       ±10%         Curie Point(typ.)       130°C         Power Consumption(typ)       1.3W         Operating Temperature Range       -40°C to 125°C         D: Outer Dimension       4.5mm         Thickness       3.5mm         H: Height       9.5mm         F: Lead Space       5mm         d: Lead Diameter       0.6mm	Trip Current(25°C)	282mA
Measure Condition of Trip Current(2) (at -40°C)   Max. Current 2A   Resistance (25°C) 10Ω   Resistance Value Tolerance (at 25°C) ±10%   Curie Point(typ.) 130°C   Power Consumption(typ) 1.3W   Operating Temperature Range -40°C to 125°C   D: Outer Dimension 4.5mm   Thickness 3.5mm   H: Height 9.5mm   F: Lead Space 5mm   d: Lead Diameter 0.6mm	·	(at +25°C)
Current(2) (at -40°C)   Max. Current 2A   Resistance (25°C) 10Ω   Resistance Value Tolerance (at 25°C) ±10%   Curie Point(typ.) 130°C   Power Consumption(typ) 1.3W   Operating Temperature Range -40°C to 125°C   D: Outer Dimension 4.5mm   Thickness 3.5mm   H: Height 9.5mm   F: Lead Space 5mm   d: Lead Diameter 0.6mm	Trip Current(2)	359mA
Resistance (25°C) 10Ω Resistance Value Tolerance (at 25°C) ±10%  Curie Point(typ.) 130°C  Power Consumption(typ) 1.3W  Operating Temperature Range -40°C to 125°C  D: Outer Dimension 4.5mm  Thickness 3.5mm  H: Height 9.5mm  F: Lead Space 5mm  d: Lead Diameter 0.6mm	·	(at -40°C)
Resistance Value Tolerance (at 25°C)  Curie Point(typ.)  130°C  Power Consumption(typ)  1.3W  Operating Temperature Range  D: Outer Dimension  Thickness  3.5mm  H: Height  9.5mm  F: Lead Space  5mm  d: Lead Diameter  0.6mm	Max. Current	2A
the state of the s	Resistance (25°C)	10Ω
Power Consumption(typ)  Operating Temperature Range  Couter Dimension  Thickness  3.5mm  H: Height  9.5mm  F: Lead Space  d: Lead Diameter  1.3W  -40°C to 125°C  3.5mm  4.5mm  0.6mm		±10%
Operating Temperature Range  -40°C to 125°C  4.5mm  Thickness  3.5mm  H: Height  9.5mm  F: Lead Space  5mm  d: Lead Diameter  0.6mm	Curie Point(typ.)	130°C
Range       -40°C to 125°C         D: Outer Dimension       4.5mm         Thickness       3.5mm         H: Height       9.5mm         F: Lead Space       5mm         d: Lead Diameter       0.6mm	Power Consumption(typ)	1.3W
Thickness 3.5mm  H: Height 9.5mm  F: Lead Space 5mm  d: Lead Diameter 0.6mm		-40°C to 125°C
H: Height 9.5mm  F: Lead Space 5mm  d: Lead Diameter 0.6mm	D: Outer Dimension	4.5mm
F: Lead Space 5mm d: Lead Diameter 0.6mm	Thickness	3.5mm
d: Lead Diameter 0.6mm	H: Height	9.5mm
	F: Lead Space	5mm
Shape	d: Lead Diameter	0.6mm
	Shape	Lead

Mass	0.26g
MSL	N

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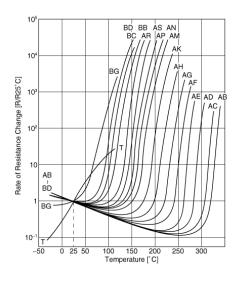
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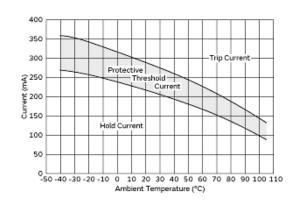
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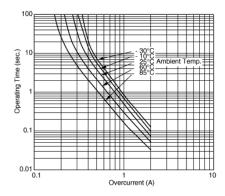


### **Product Data**





#### Resistance-Temperature Charac.



### Protective Threshold Current Range

Operating Time (Typical Curve)

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