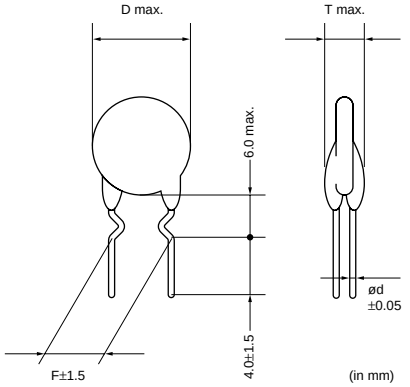
POSISTOR® for Circuit Protection

for Overcurrent Protection 24/30/32V Series

SAFETY RESISTOR "POSISTOR" is most suited to meet the requirements of the safety standard short-circuit tests such as IEC, VDE, BS, UL, etc. all over the world.



■ Features

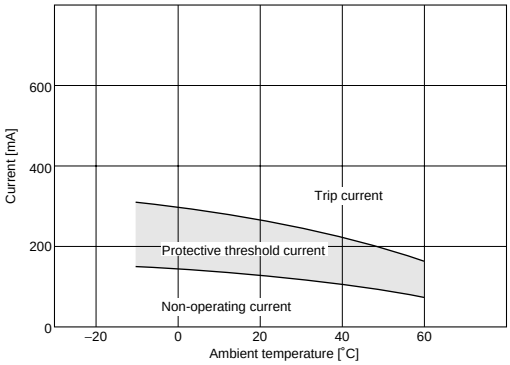
1. Best suited to meet the requirements of the short-circuit test. Quick response compared with current fuse and resistor and error-free operation are assured.
2. Small size does not need a large space. Capable of being mounted to any place because replacement is not required.
3. Actuates by excessive current during the short-circuit test to restrain abnormal heat generation in other circuit components and printed boards. This state will be maintained until the abnormal state is removed or power is turned off to reset the "POSISTOR" to the original state. Surface temperature of "POSISTOR" is kept low, below a certain value, during the actuation.
4. Non-contact design leads to long life and no noise. Durable and strong against mechanical vibration and shock because it is a solid element.

Part Number	Max. Voltage (V)	Non-operating Current at +60°C (mA)	Operating Current at -10°C (mA)	Max. Current (A)	Resistance (at 25°C) (ohm)	Curie Point (°C)	Body Diameter (D) (mm)	Thickness (T) (mm)	Lead Space (F) (mm)	Lead Diameter (phi d)(mm)
PTGL07BD100N2B51B0	24	80	320	2.0	10 ±30%	80 (BD)	7.4	4.0	5.0	0.6
PTGL07BD6R8N2B51B0	24	90	370	2.0	6.8 ±30%	80 (BD)	7.4	4.0	5.0	0.6
PTGL09BD4R7N2B51B0	24	120	500	2.0	4.7 ±30%	80 (BD)	9.5	4.0	5.0	0.6
PTGL09BD3R3N2B51B0	24	140	580	2.0	3.3 ±30%	80 (BD)	9.5	4.0	5.0	0.6
PTGL09BD2R2N2B51B0	24	180	710	2.0	2.2 ±30%	80 (BD)	9.5	4.0	5.0	0.6
PTGL04AR130H2B51B0	30	145	400	0.7	13 ±25%	120 (AR)	5.5	4.0	5.0	0.6
PTGL07AR4R6H2B51B0	30	250	700	2.0	4.6 ±25%	120 (AR)	7.4	4.0	5.0	0.6
PTGL09AR1R8H2B51B0	30	410	1120	3.0	1.8 ±25%	120 (AR)	9.5	4.0	5.0	0.6
PTGL12AR1R2H2B51B0	30	520	1420	4.3	1.2 ±25%	120 (AR)	12.0	4.0	5.0	0.6
PTGL13AR0R8H2B71B0	30	680	1900	5.5	0.8 ±25%	120 (AR)	13.5	4.0	7.5	0.6
PTGL07BD470N3B51B0	32	30	140	1.5	47 ±30%	80 (BD)	7.4	4.0	5.0	0.6
PTGL07BD330N3B51B0	32	40	170	1.5	33 ±30%	80 (BD)	7.4	4.0	5.0	0.6
PTGL07BD220N3B51B0	32	45	200	1.5	22 ±30%	80 (BD)	7.4	4.0	5.0	0.6
PTGL07BD150N3B51B0	32	60	240	1.5	15 ±30%	80 (BD)	7.4	4.0	5.0	0.6

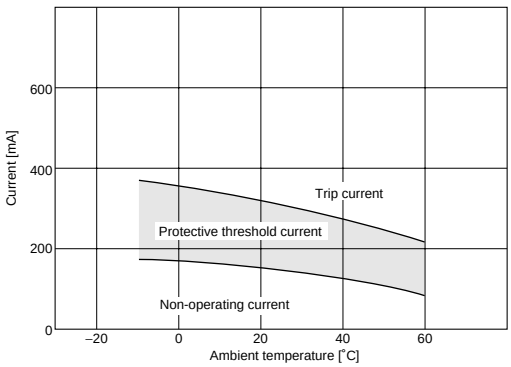
Maximum Current shows typical capacities of the transformer which can be used.
The order quantity should be an integral multiple of the "Minimum Quantity" shown in the "Package" page.
PTGL_51B0 series are available in taping type.

■ Protective Threshold Current Range (24V Series)

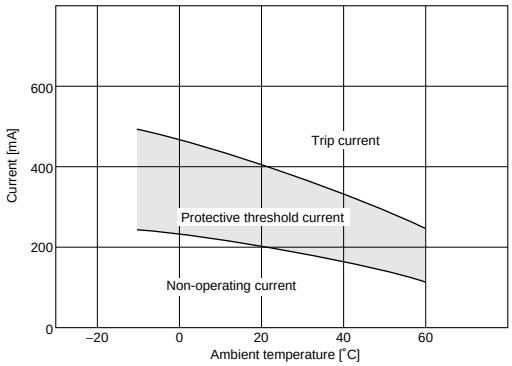
PTGL07BD100N2B51B0



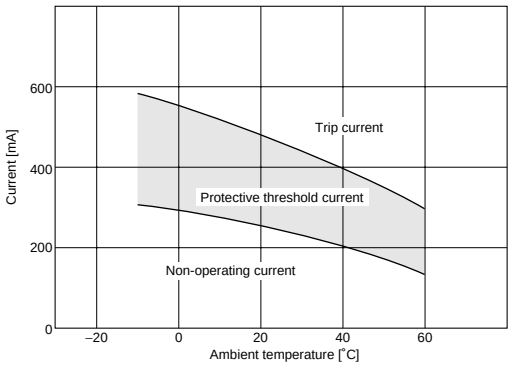
PTGL07BD6R8N2B51B0



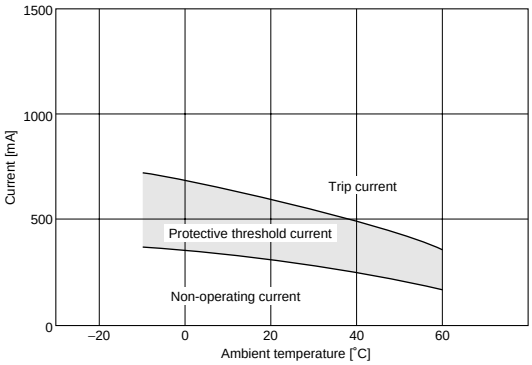
PTGL09BD4R7N2B51B0



PTGL09BD3R3N2B51B0

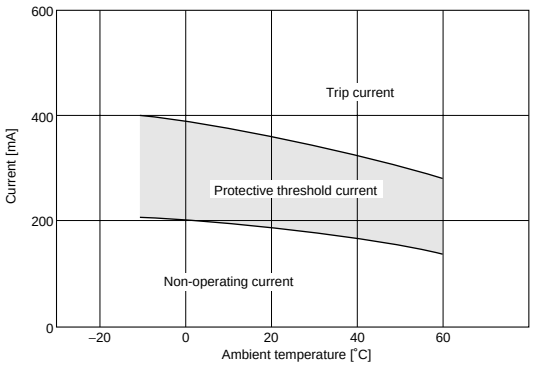


PTGL09BD2R2N2B51B0

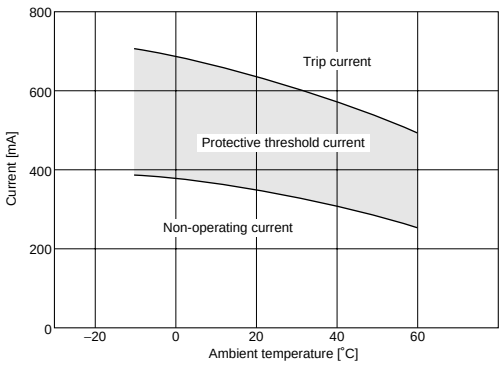


■ Protective Threshold Current Range (30V Series)

PTGL04AR130H2B51B0



PTGL07AR4R6H2B51B0

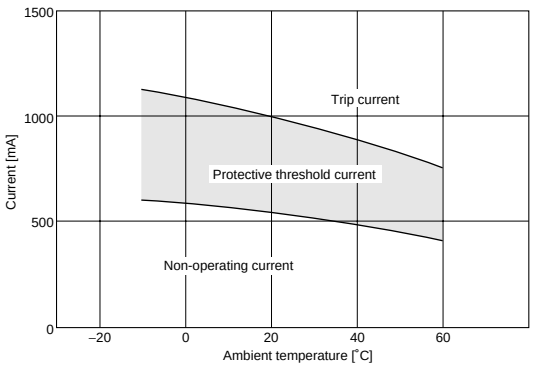


Continued on the following page.

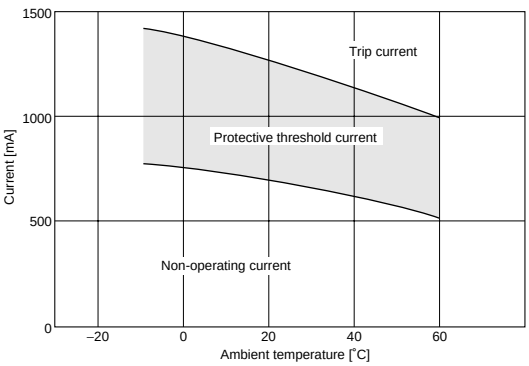
Continued from the preceding page.

■ Protective Threshold Current Range (30V Series)

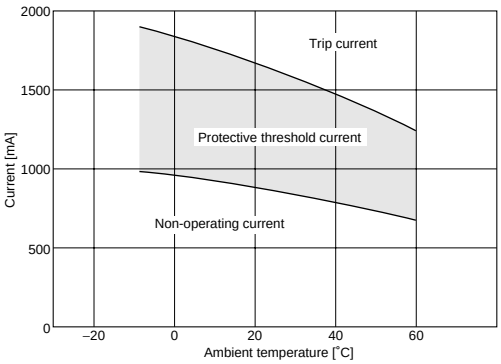
PTGL09AR1R8H2B51B0



PTGL12AR1R2H2B51B0

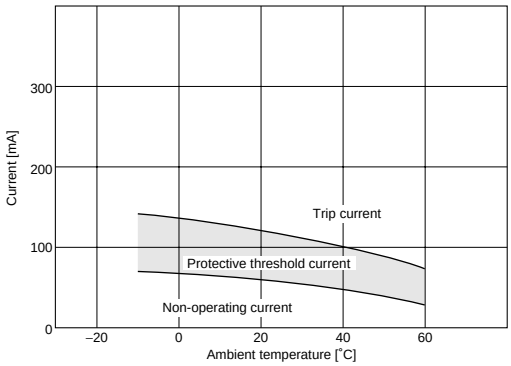


PTGL13AR0R8H2B71B0

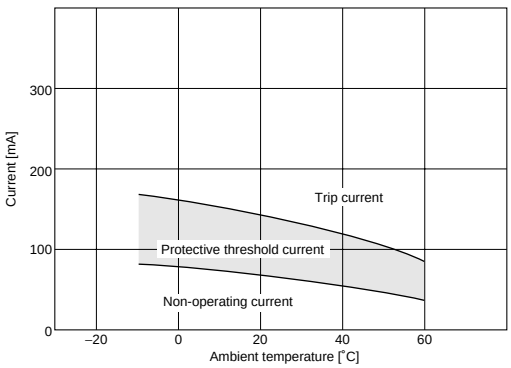


■ Protective Threshold Current Range (32V Series)

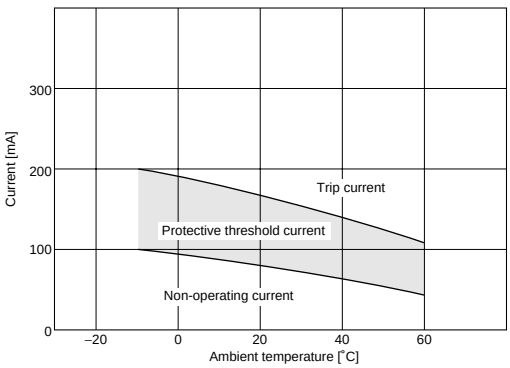
PTGL07BD470N3B51B0



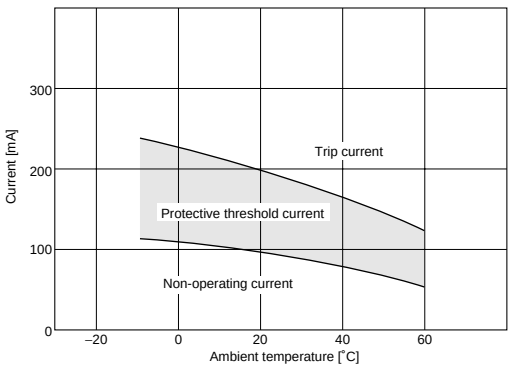
PTGL07BD330N3B51B0



PTGL07BD220N3B51B0

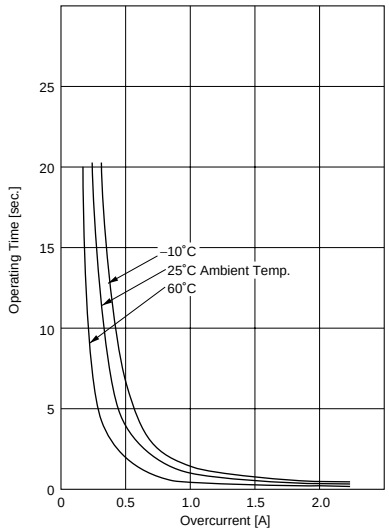


PTGL07BD150N3B51B0

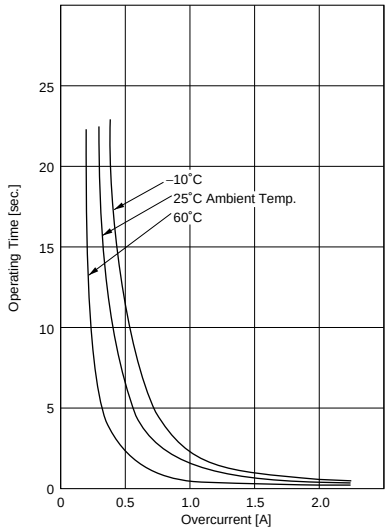


■ Operating Time 24V Series (Typical Curve)

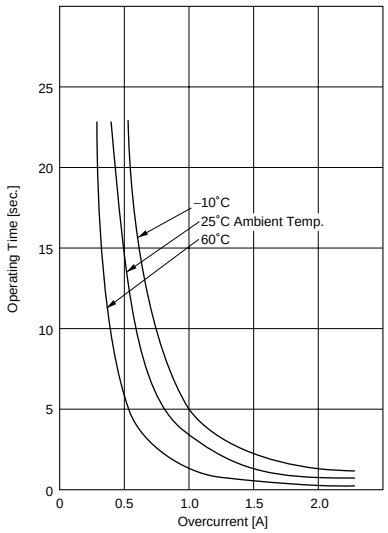
PTGL07BD100N2B51B0



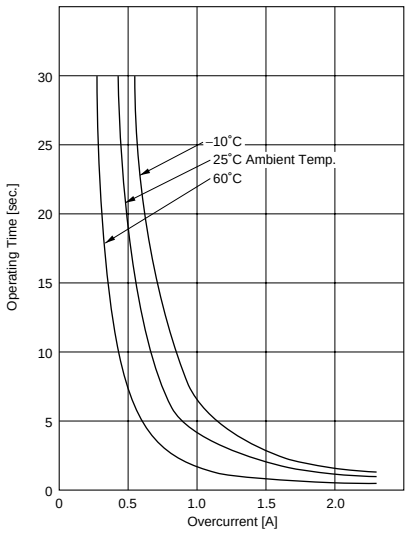
PTGL07BD6R8N2B51B0



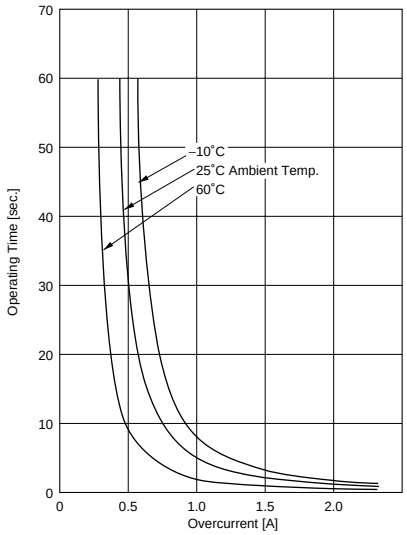
PTGL09BD4R7N2B51B0



PTGL09BD3R3N2B51B0

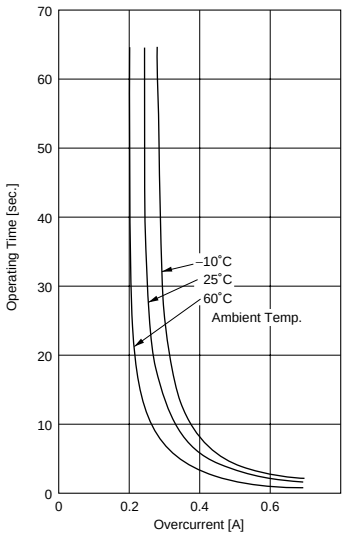


PTGL09BD2R2N2B51B0

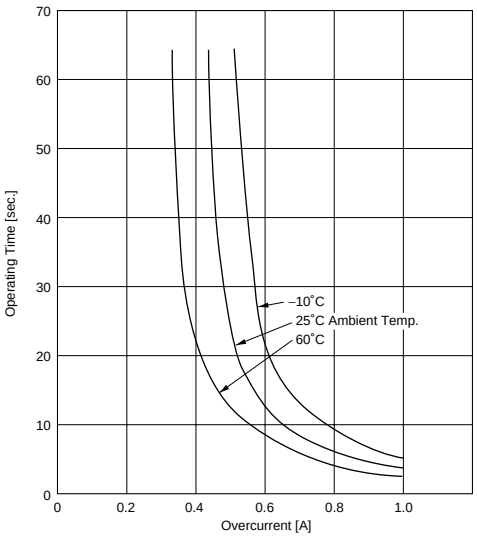


■ Operating Time 30V Series (Typical Curve)

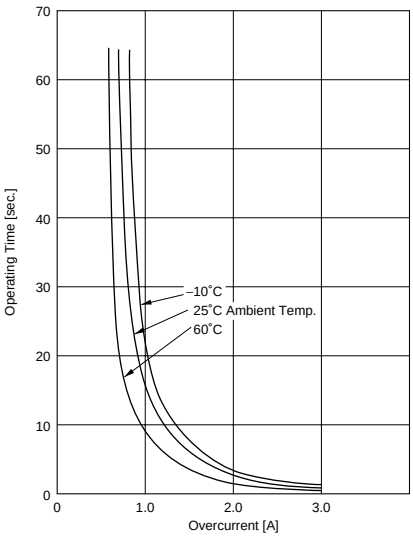
PTGL04AR130H2B51B0



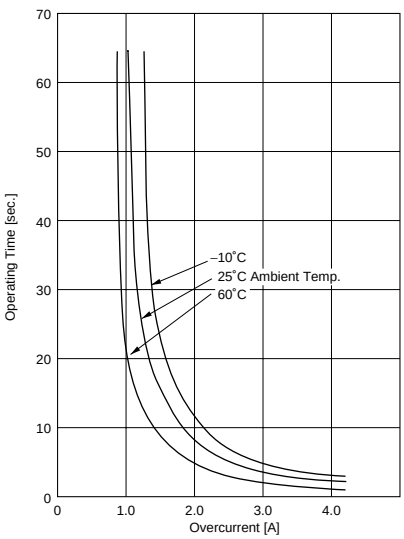
PTGL07AR4R6H2B51B0



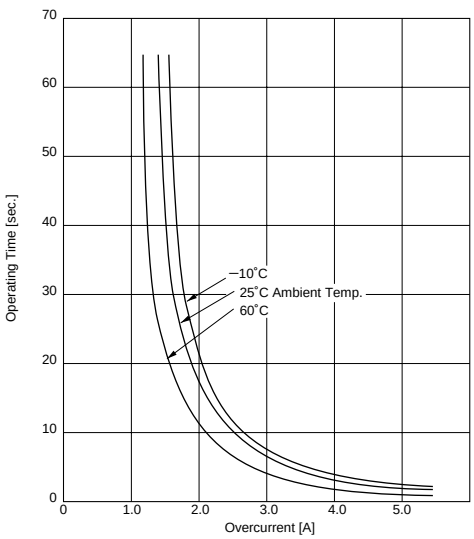
PTGL09AR1R8H2B51B0



PTGL12AR1R2H2B51B0

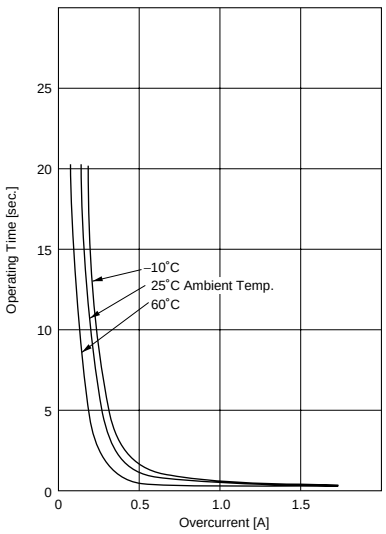


PTGL13AR0R8H2B71B0

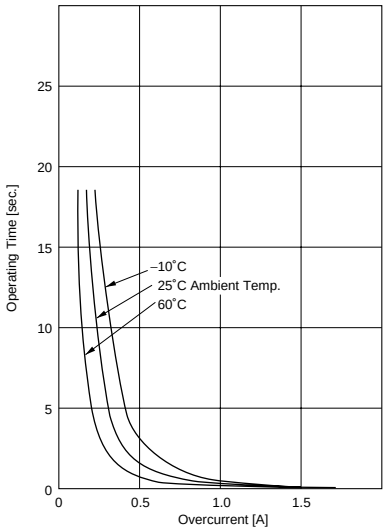


■ Operating Time 32V Series (Typical Curve)

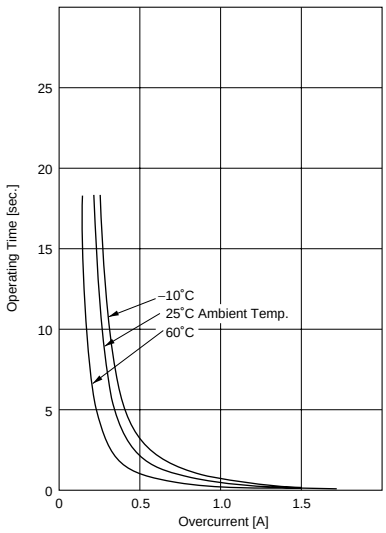
PTGL07BD470N3B51B0



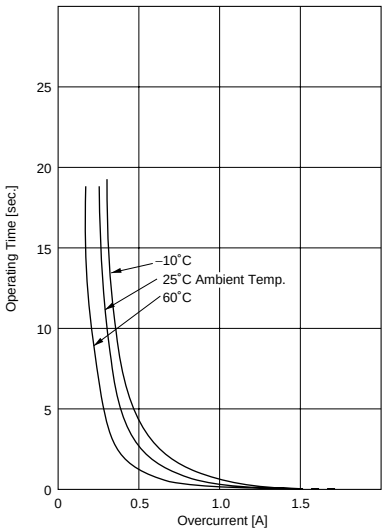
PTGL07BD330N3B51B0



PTGL07BD220N3B51B0

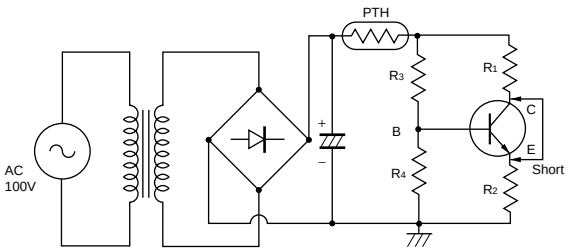


PTGL07BD150N3B51B0

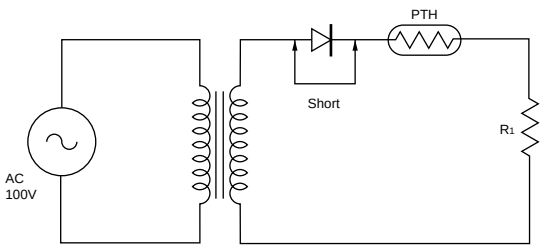


■ Application Circuit 24/32V Series

(1) Short-Circuit Test of Transistor



(2) Short-Circuit Test of Diode

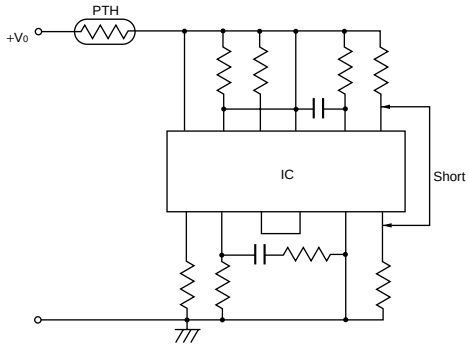


Continued on the following page.

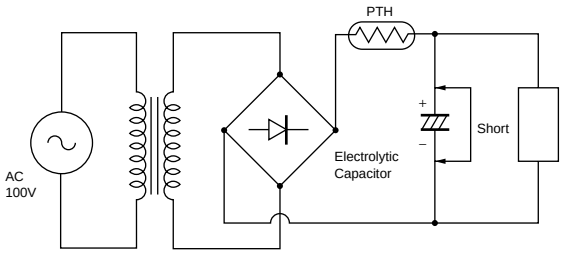
Continued from the preceding page.

■ Application Circuit 24/32V Series

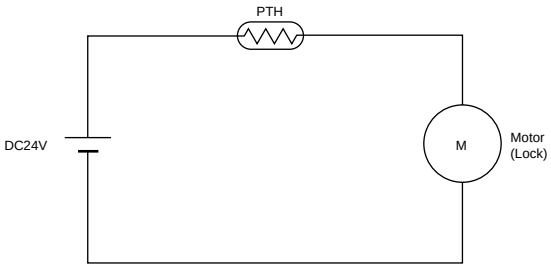
(3) Short-Circuit Test of IC



(4) Short-Circuit Test of Electrolytic Capacitor

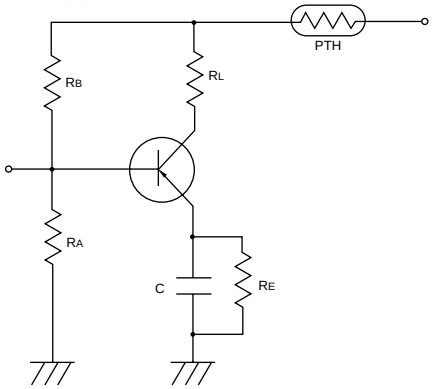


(5) Lock Test of Motor

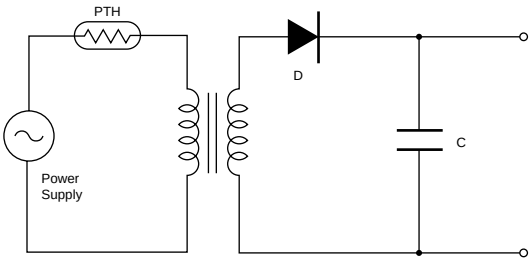


■ Application Circuit 30V Series

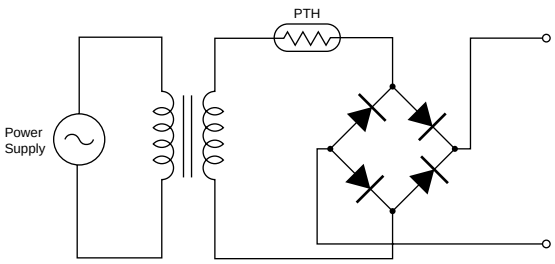
(1) Transistor Protection Circuit



(2) Transformer Protection Circuit 1)



(3) Transformer Protection Circuit 2)



(4) Fluorescent Lamp Protection Circuit