

Transformers Trigger, SCR Isolation

FEATURES

- Designed for low-cost trigger source isolation in SCR power control circuits.
- Small physical size and low profile provide packaging advantages.
- Designed to transfer high amplitude or long duration pulses without saturation.
- Industrial and commercial applications include motor speed controls, lighting controls and heater controls.
- Interchangeable. Designed for circuit board mounting using same mounting dimensions as 11Z and PT-20 models.



RoHS
COMPLIANT



STANDARD ELECTRICAL SPECIFICATIONS

DASH NUMBER	TURNS RATIO	PRIMARY INDUCTANCE MIN. (μH)	LEAKAGE INDUCTANCE MAX. (μH)	INTERWINDING CAPACITY MAX. (pF)	DCR MAX. (Ohms)	UNIPOLAR ET (V-μSEC)
101	1:1 ± 10%	200	3	800	1.5-1.5	570
102	1:1 ± 10%	500	6	1500	4.5-4.5	912
103	1:1 ± 10%	1000	12	2000	8.0-8.0	1283
104	1:1 ± 10%	2000	13	2800	12-12	1853
105	1:1 ± 10%	5000	15	3500	18-18	2850
106	2:1 ± 10%	500	6	1000	4-2	912
107	2:1 ± 10%	1000	10	1300	10-2	1288
108	2:1 ± 10%	2000	12	1800	10-5	1881
109	2:1 ± 10%	5000	15	2400	18-10	2565
110	5:1 ± 10%	5000	1500	400	19-3	2850

ELECTRICAL SPECIFICATIONS

Primary Inductance Values: From

200 μH to 5000 μH

Turns Ratio: 1:1, 2:1 and 5:1

Temperature Range: - 55 °C to + 105 °C

Dielectric Test at 60 Hz: 1600 V RMS (Windings to core)

AC Line Voltage at 60 Hz: 240 V

RMS maximum in test circuits shown

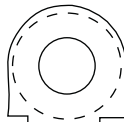
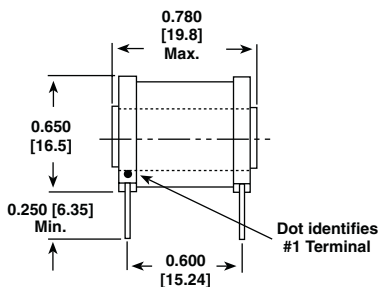
MATERIAL SPECIFICATIONS

Bobbin: Glass-filled nylon

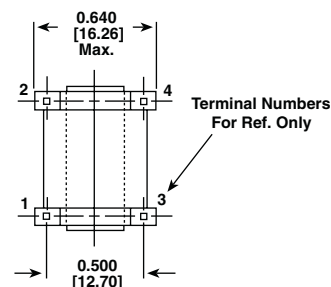
Terminals: 0.025" [0.635] square tinned copper

Material Rating: + 105 °C Class A

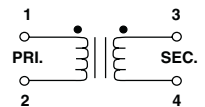
DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



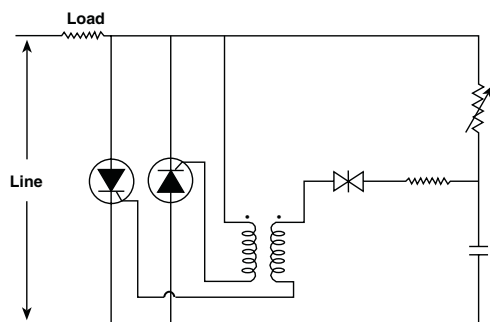
0.025 [0.635]
Sq. Terminals Typ.



Schematic



CIRCUIT DIAGRAM



Transformer Coupled Breakdown Diode Triggering Circuit

PART MARKING

- Vishay Dale
- Model
- Dash number



ORDERING INFORMATION

PT-50
MODEL

101
DASH NUMBER

EB
PACKAGE CODE

e2
JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

P	T	0	5	0
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MODEL

E	B
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PACKAGE CODE

1	0	1
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DASH NUMBER



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