

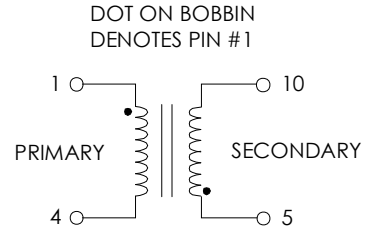
**TABLE 1: ELECTRICAL SPECIFICATIONS AT 25 °C**

SWITCHING TRANSFORMER DESIGNED FOR USE WITH POWER INTEGRATIONS  
TNY-254 REFER TO APPLICATION CIRCUIT OF FIGURE 3.

PARAMETER	SPEC LIMITS			UNITS
	MIN.	TYP.	MAX.	
PRIMARY INDUCTANCE (4-1) FREQ. = 100 KHZ @ 0.250Vrms	3240	3600	3960	μHY
TURNRATIO'S: SECONDARY (10-8): PRIMARY (4-1)	-----	1: 9.79	-----	± 4%
PRILEAKAGE IND. (10-5 SHORTED) FREQ. = 100 KHZ @ 0.250Vrms	-----	-----	110	μHY
HIPOT: PRIMARY TO SECONDARY	3000	-----	-----	Vrms
APP CIRCUIT PARAMETERS: (1)				
AC INPUT VOLTAGE	85	-----	265	Vac
DCHOT RAIL VOLTAGE	110	-----	375	Vdc
OUTPUT VOLTAGE		5.0		Vdc
OUTPUT CURRENT CONTINUOUS	50	-----	500	mA
LINE REGULATION (85 TO 265Vac)	-----	0.50	-----	±%
LOAD REGULATION 10-100%	-----	0.30	-----	±%
RIPPLE	-----	75.0	-----	±mV

(1) REFER TO APPLICATION CIRCUIT OF FIGURE 3.

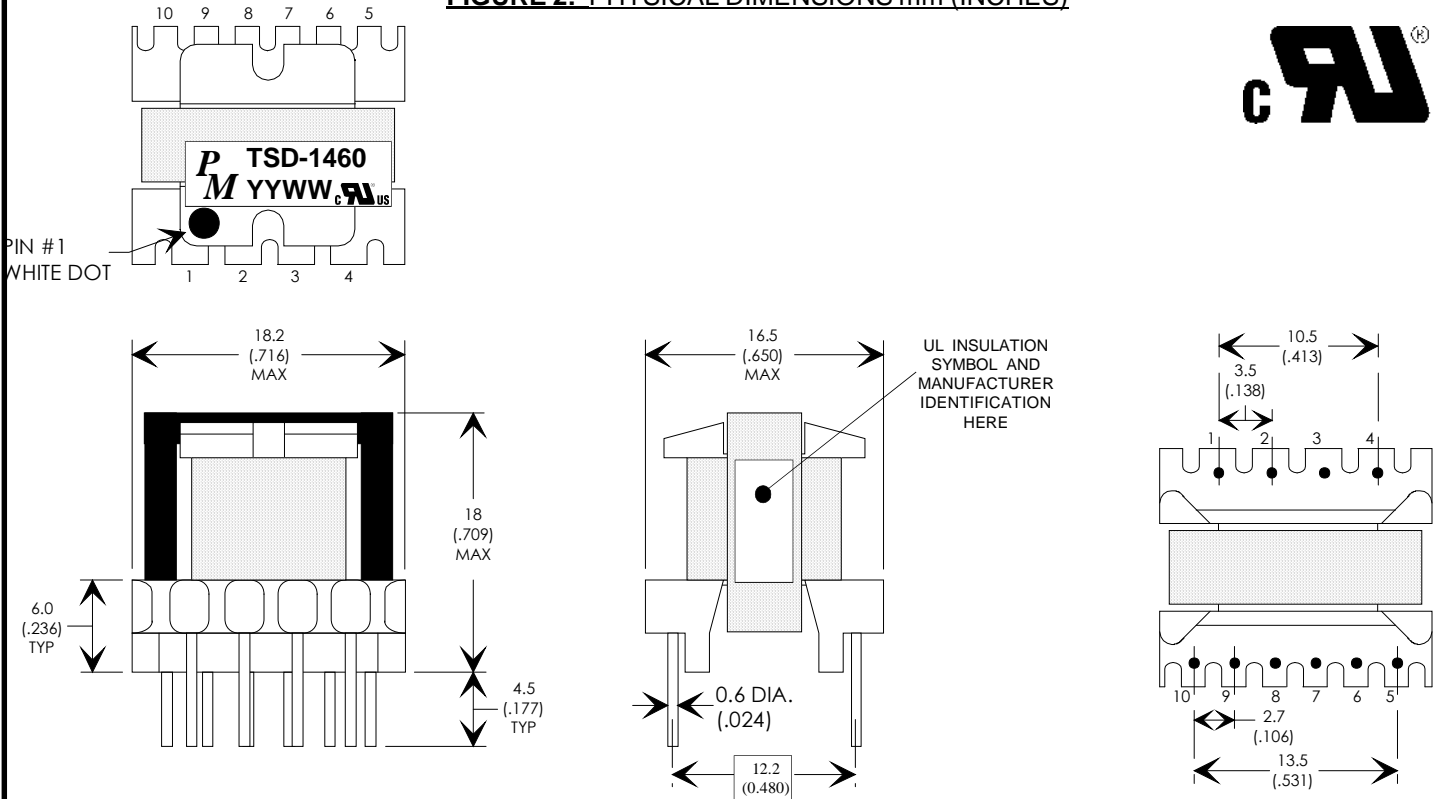
**FIGURE 1: SCHEMATIC DIAGRAM**



**NOTE1:**

- REINFORCED INSULATION SYSTEM, UL1950, IEC950, CSA-950:**
- A) ALL MATERIALS MEET "UL", "CSA" & "IEC" REQUIREMENTS
- B) TRIPLE BASIC INSULATED SECONDARY.
- C) DESIGNED TO MEET ≥6.2mm CREEPAGE REQUIREMENTS.
- D) VARNISH FINISHED ASSEMBLY.
- E) UL1950 & CSA-950 CERTIFIED: FILE #E162344.
- F) UL CLASS (B) 130 INSULATION SYSTEM PM130-R-1, PM130-H1, PM130-H1A (UL FILE #E177139) OR ANY UL AUTHORIZED CLASS (B) INSULATION SYSTEM.

**FIGURE 2: PHYSICAL DIMENSIONS mm (INCHES)**



RoHS

REV.	DESCRIPTION OF CHANGES	BY
09/19/99	UPDATE RELEASE	PP
10/04/99	UPDATE TO UL CLASS (B) INSULATION SYSTEM	MD
10/29/99	CORRECT MARKING PART NUMBER	PP
01/12/00	UPDATE TO UL RECOGNIZED FILE #E162344	MD
12/10/01	UPDATED NEW DIMENSIONS ON DRAWING	MP
03/12/13	Revised pin row pitch dimension to match actual Bobbin; was 12.5mm. ECO0069.	KC



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN mm.  
DIMENSIONAL TOLERANCES ARE:  
DECIMALS ANGLES  
X ± .25 ± 0° 30'  
.XX ± .15  
DRAWING NOT TO SCALE.

FLYBACK TRANSFORMER CONTROL DRAWING	
PREMIER P/N: TSD-1460	REVISION: 03/12/13
DRAWN BY: PETER PHAM	REF: TNY-254
SCALE: NONE	SHEET: 1 OF 2