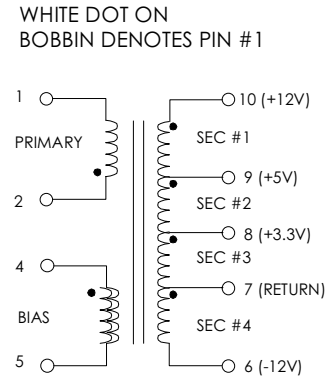


**TABLE 1: ELECTRICAL SPECIFICATIONS AT 25 °C**  
 SWITCHING TRANSFORMER DESIGNED FOR USE WITH POWER INTEGRATIONS  
 PWR-TOP222YAI. REFER TO APPLICATION CIRCUIT OF FIGURE 3.

PARAMETER	SPEC LIMITS			UNITS
	MIN.	TYP.	MAX.	
PRIMARY INDUCTANCE (2-1) VOLTAGE = 0.250Vrms FREQUENCY = 100 KHZ	878	975	1072	μHY
PRI LEAKAGE INDUCTANCE (2-1) VOLTAGE = 0.250Vrms FREQUENCY = 100 KHZ SECONDARIES SHORTED	-----	-----	45.0	μHY
URNS RATIO'S: SEC (10-6) : PRIMARY (2-1) SEC (9-6) : PRIMARY (2-1) SEC (8-6) : PRIMARY (2-1) SEC (7-6) : PRIMARY (2-1) BIAS (3-4) : PRIMARY (2-1)	-----	1: 3.2 1: 4.27 1: 4.92 1: 6.4 1: 6.4	-----	± 4% ± 4% ± 4% ± 4% ± 4%
HIPOT: PRIMARY, BIAS TO SEC'S PRIMARY TO BIAS	3000 600	----- -----	----- -----	Vrms Vrms
APP CIRCUIT PARAMETERS: (1) AC LINE VOLTAGE 47/400 Hz OUTPUT VOLTAGE - SEC #1 & #4 OUTPUT CURRENT - SEC #1 & #4 OUTPUT VOLTAGE - SEC #2 OUTPUT CURRENT - SEC #2 OUTPUT VOLTAGE - SEC #3 OUTPUT CURRENT - SEC #3 LINE REGULATION (85 TO 135Vac) LOAD REGULATION 0-100% RIPPLE	85 0.01 0.01 0.05 ----- ----- -----	----- +/-2 ----- +5.0 ----- +3.3 ----- 1.50 ----- 0.50 ----- 0.50 ----- 50.0	265 .100 1.00 1.50 ----- ----- -----	Vac Vdc Amps Vdc Amps Vdc Amps ±% ±% ±mV

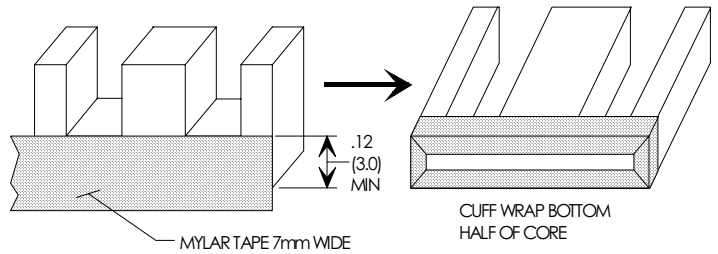
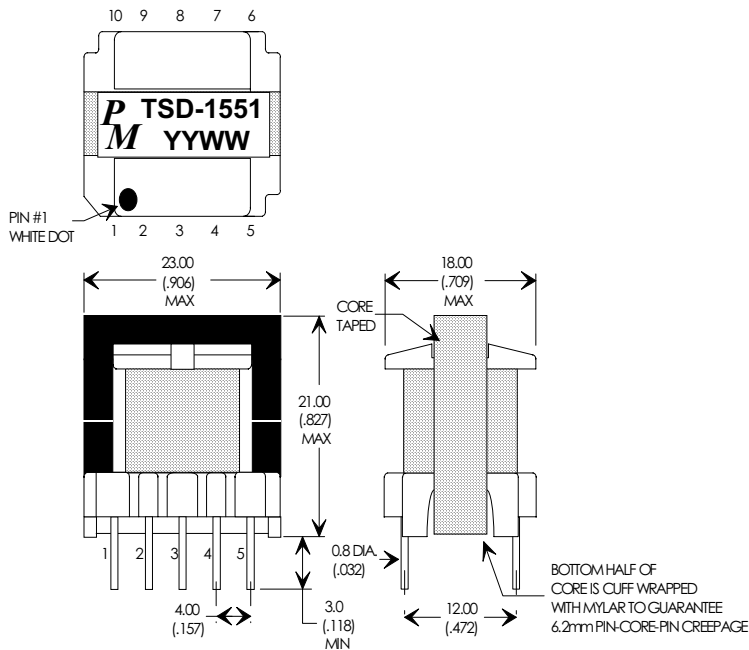
**FIGURE 1: SCHEMATIC DIAGRAM**



**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) ALL MATERIAL RATED 130 °C OR BETTER.  
 F) VARNISH FINISHED ASSEMBLY.

(1) REFER TO APPLICATION CIRCUIT OF FIGURE 3.

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



EE22/19/6, 10-PIN VERTICAL BOBBIN



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

REV.	DESCRIPTION OF CHANGES	BY
06/08/00	UPDATE RELEASE / ADD MAX 45uH LEAKAGE	PP

**FLYBACK TRANSFORMER CONTROL DRAWING**

PREMIER P/N: TSD-1551	REVISION: 06/08/00
ENGR: PETER PHAM	REF: PWR-TOP222
SCALE: NONE	SHEET: 1 OF 4

