Specification Number
SGE2641-1G
Revision. A (082905)

6W LMT3811 47.2:1 Transformer

DESCRIPTION

This document describes and specifies the electrical and mechanical characteristics of the SGE2641-1G high voltage transformer for CCFL inverter power supplies. SGE2641-1G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-2.

ELECTRICAL CHARACTERISTICS

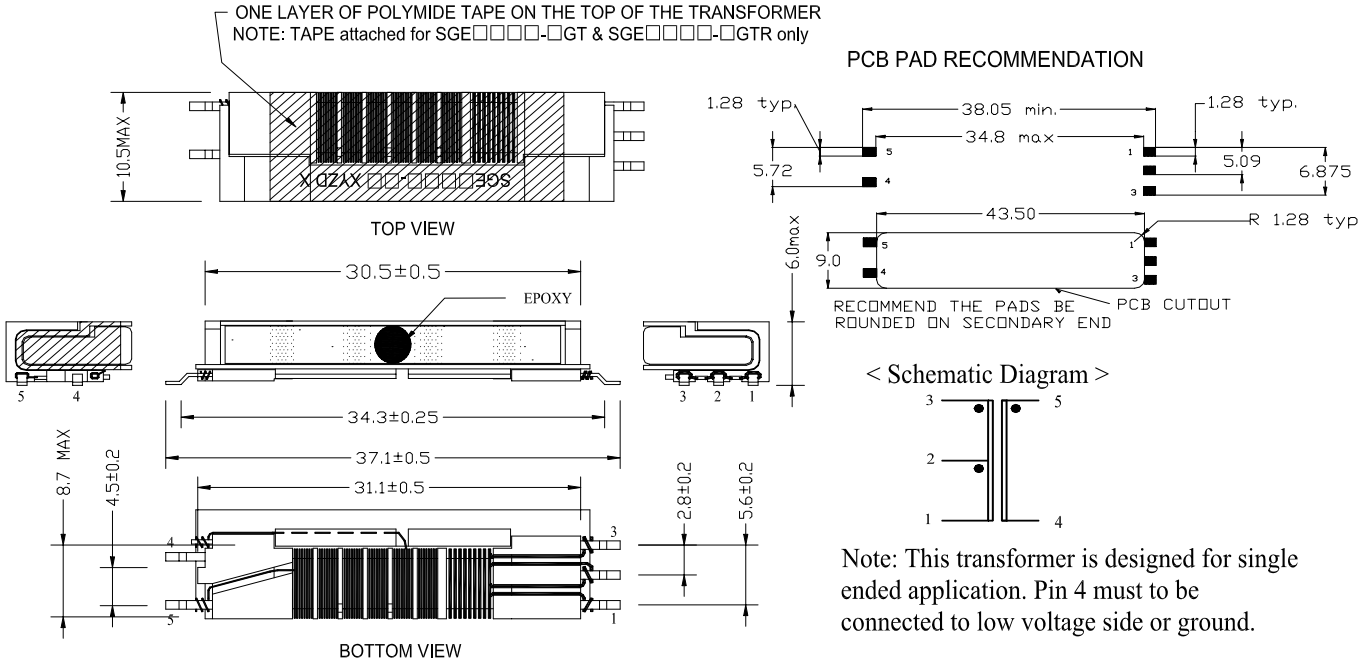
Items	Inductance (@ 10Khz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (μH)	100	117	136	R_{DC}1-2, R_{DC}2-3(mΩ)	150	174	198
L4-5 (mH)	830	1012	1230	R_{DC}4-5 (Ω)	390	415	430
L_{LKG1-2}, L_{LKG2-3} (μH)	Inductance (@ 100KHz, 1V)			R_{DC}1-2 / R_{DC}2-3	0.96	1	1.04
	10	11	12	**Secondary Self Capacitance** (HP4192A 1MHz C meter, 30mVrms)			
L_{LKG4-5} (mH)	NA	NA	NA	C_{4-5} (pF)	2.0	2.5	3.5

Rating Note: Max output power varies depend on operating condition.		**Dielectric Voltage Withstand** 60Hz, Arc-detect enabled, 5 sec. min. 200μA max. leakage current	
Max Open Output Voltage	2000V_{RMS} , 3sec.	Secondary to Core	2500V_{RMS} min. (60sec)
Max Output Voltage	1100V_{RMS}	Primary to Core	1000V_{RMS} min.
Max Output Power	6W	Primary to Secondary	1000V_{RMS} min.

WINDING SPECIFICATIONS

	Primary		Secondary
	Pin 1 – 2	Pin 2 – 3	Pin 4 – 5
Winding Sequence	2S – 1F	3S – 2F	5S – 4F
Wire Size & Type	#35x2, Single Insulation, 180°C	#35x2, Single Insulation, 180°C	#46, Triple Insulation, 180°C
Number of Turns	18	18	1700
Winding Method	Bifilar		

PHYSICAL SPECIFICATIONS & WIRING DIAGRAM



Note: This transformer is designed for single ended application. Pin 4 must to be connected to low voltage side or ground.

PART MARKING

SGE□□□□-□G XYZD A – SGE2641-1G: MSC PN, XYZ: Datecode (X:YR, YZ=WK), D: Plant Code, A: Rev.#

PACKAGING SPEC AND ORDER INFORMATION

Packaging Order Information – SGE2641-1G (Standard for TRAY)
SGE2641-1GTR (Tape and Reel)
SGE2641-1GT (with Polymide Tape for TRAY)

TAPE & REEL : Refer to SGE2604-4 specification

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Rev. A, 2005-08-29

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NOTES

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