



Microsemi
TM

Specification Number
SGE2641-3G
Revision. B (041706)

6W LMT3811 47.2:1 Transformer

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FOR REFERENCE USE ONLY DESCRIPTION

This document describes and specifies the electrical and mechanical characteristics of the SGE2641-3G high voltage transformer for CCFL inverter power supplies. SGE2641-3G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-2.

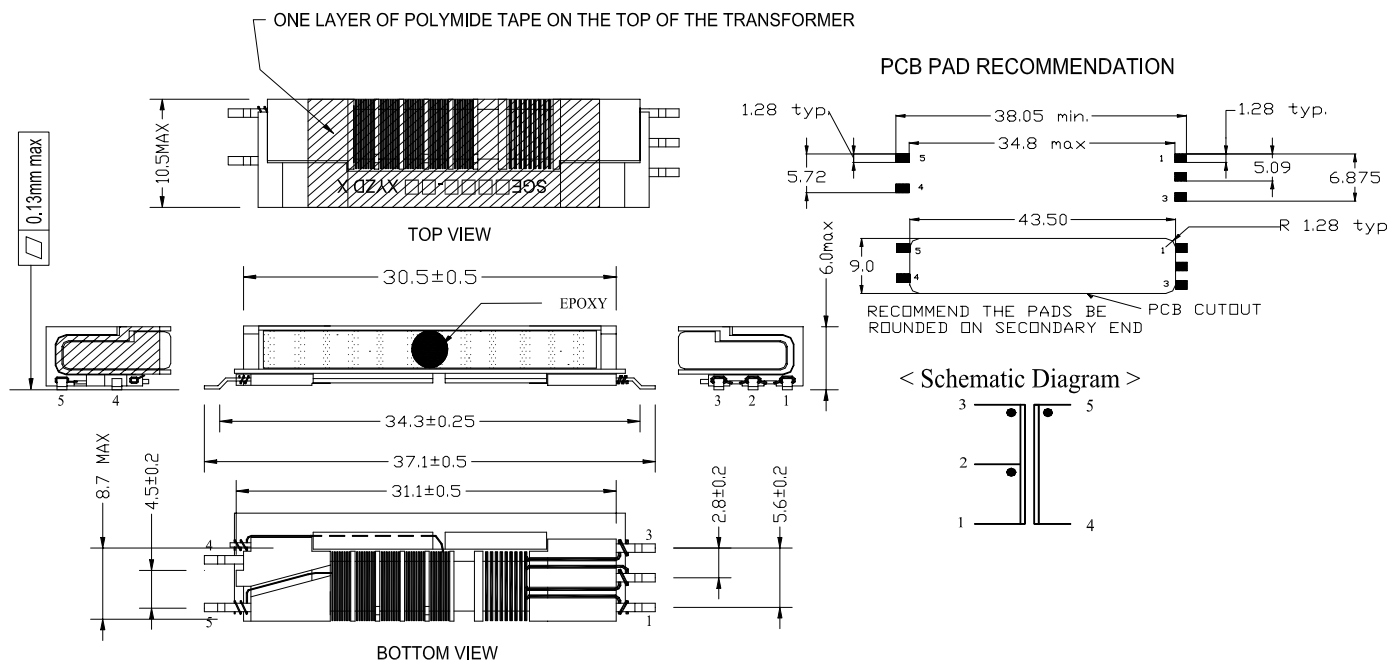
ELECTRICAL CHARACTERISTICS

Items	Inductance (@ 10Khz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (μH)	104	117	137	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				Dielectric Voltage Withstand			
Note: Max output power varies depend on operating condition.				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		2500V _{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		Skip sector 1. (Empty)

PHYSICAL SPECIFICATIONS & WIRING DIAGRAM



PART MARKING

SGE□□□□-□G PYMDD A - SGE2641-3G: MSC PN, P: Plant Code, Y:Year, M:Month, D:Date, A: Rev.#

PACKAGING SPEC AND ORDER INFORMATION

Packaging Order Information - SGE2641-3G (Standard for TRAY)
SGE2641-3GTR (Tape and Reel)

TAPE & REEL : Refer to SGE2604-4 specification



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NOTES

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