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Winbond
DC Fan Pre-Driver
W83391TS
W83391TG



W83391TS/TG

Data Sheet Revision History

	PAGES	DATES	VERSION	VERSION ON WEB	MAIN CONTENTS
1.	N.A	Sep/04	0.5	N.A.	All versions before 0.5 are for internal use and W83391DG/TG/QG are Pb-free package.
2.	N.A	Jan/06	0.51	N.A	Remove W83391DS/DG
3.	N.A	Jan./06	0.52	N.A	Remove W83391QS/QG.
4	N.A	Jan./06	0.53	N.A	Update the datasheet with new templet.

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LIFE SUPPORT APPLICATIONS

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W83391TS/TG



Table of Content-

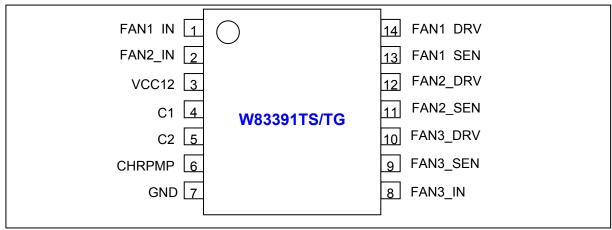
1.	FEATURES	. 1
2.	PIN CONFIGURATION AND DESCRIPTION	. 1
3.	APPLICATION CIRCUIT	. 2
4.	INTERNAL BLOCK DIAGRAM	. 2
5.	ELECTRICAL SPECIFICATION	. 3
6.	AC CHARACTERISTICS	. 3
7.	PACKAGE DIMENSION	. 4
8.	ORDERING INFORMATION	. 5
9	HOW TO READ THE TOP MARKING	_



1. FEATURES

- Provide up to 24V gate voltage for external N-channel MOSFET driving
- Pairing with Winbond all new series Super IO and Hardware Monitoring IC for DC Fan voltage regulation
- External resistors for output voltage scale adjustment
- W83391TS/TG provides 3 channels Fan control.

2. PIN CONFIGURATION AND DESCRIPTION

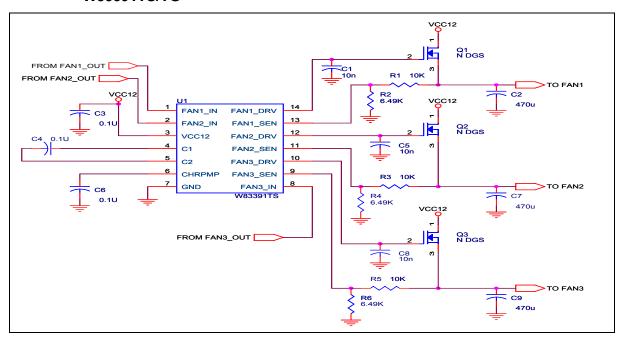


PIN	SYMBOL	FUNCTION			
1	FAN1_IN	DC FAN1 Voltage Input Ranging from 0V~8V.			
2	FAN2_IN	DC FAN2 Voltage Input Ranging from 0V~8V.			
3	VCC12	12Vcc input.			
4	C1				
5	C2	Charge Pump Pins. It insures output voltage achieve to 24V.			
6	CHRPMP				
7	GND	Power Ground.			
8	FAN3_IN	DC FAN3 Voltage Input Ranging from 0V~8V.			
9	FAN3_SEN	Voltage Sensing Pin for 3 rd Fan Voltage Regulation.			
10	FAN3_DRV	Voltage Driving Pin for 3 rd Fan Voltage Regulation.			
11	FAN2_SEN	AN2_SEN Voltage Sensing Pin for 2 nd Fan Voltage Regulation.			
12	FAN2_DRV	Voltage Driving Pin for 2 nd Fan Voltage Regulation.			
13	FAN1_SEN	Voltage Sensing Pin for 1 st Fan Voltage Regulation.			
14	FAN1_DRV	Voltage Driving Pin for 1 st Fan Voltage Regulation.			



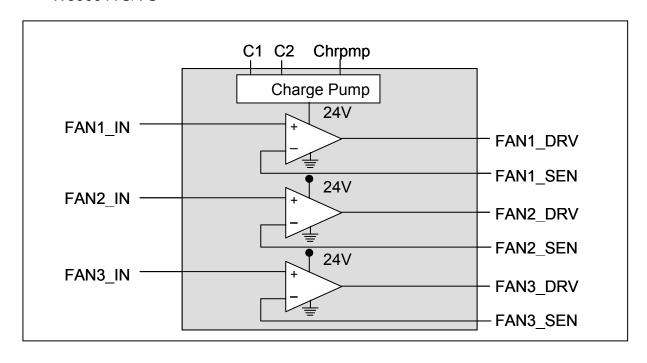
3. APPLICATION CIRCUIT

W83391TS/TG



4. INTERNAL BLOCK DIAGRAM

- W83391TS/TG





5. ELECTRICAL SPECIFICATION

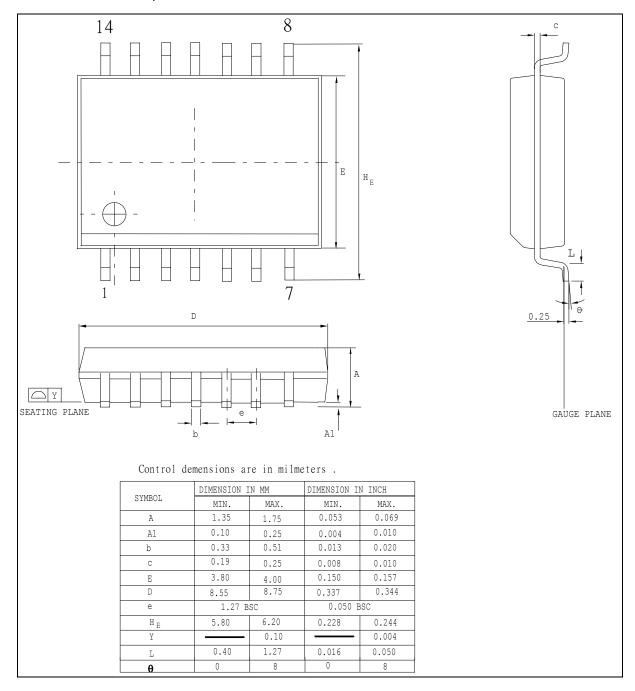
6. AC CHARACTERISTICS

$Vcc12=12V \pm 5 \%$, $T_A = 0 \%$ to +70 $\%$						
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
FAN#_IN Input						
Input Offset Voltage	Vio	2	5	50	mV	
Input Voltage Range		0		8	V	
FAN#_DRV Output						
Output Drive Current			45		uA	Cout=10nF
Output Voltage Range		1.5		24	V	
Charge Pump						
Charge Pump Frequency			180		KHz	
Charge Pump Voltage		22.8	23.2	24		



7. PACKAGE DIMENSION

- W83391TS/TG; 14L SOP 150mil





8. ORDERING INFORMATION

PART NUMBER	PACKAGE TYPE	PRODUCTION FLOW		
W83391TS	14PIN SOP	Commercial, 0°C to +70°C		
W83391TG	14PIN SOP(Pb-free package)	Commercial, 0°C to +70°C		

9. HOW TO READ THE TOP MARKING



W83391TS 212345678 249OB



W83391TG 212345678 249OB

Left line: Winbond logo

1st line: W83391TS, W83391TG – the part number

2nd line: Chip lot no

3rd line: Tracking code 249 O A

249: packages assembled in Year 02', week 49

O: assembly house ID; O means OSE, G means GR, etc.

B: the IC version



Important Notice

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