

All information is subject to change without notice. Please read bottom notes.

TENTATIVE

MECHANICAL SPECIFICATIONS

Item	Specifications
Dimensional Outline	147.0(W)×22max.(H)×10.0max.(D) (mm)
Applicable TFT Module	LTM12C289
Weight	25g(max.)

ABSOLUTE MAXIMUM RATINGS *1

Item	Symbol	Min.	Max.	Unit
Supply Voltage	V_{IN}	0	14.0	V
Input Voltage	$V_{ON/OFF}$	-1	$V_{IN}+1$	V
Storage Temp. *2	T_{stg}	-20	60	°C
Operating Temp. *2	T_{op}	0	50	°C
Humidity *2	H	10	90	%(RH)

*1 : Do not exceed the maximum rating values under the worst probable conditions taking into account the supply voltage variation, input voltage variation, variation in part constants, ambient temperature and so on. Otherwise the inverter unit may be damaged.

*2 : Wet bulb temperature should be 39 °C max., and no condensation of water.

ELECTRICAL SPECIFICATION *3

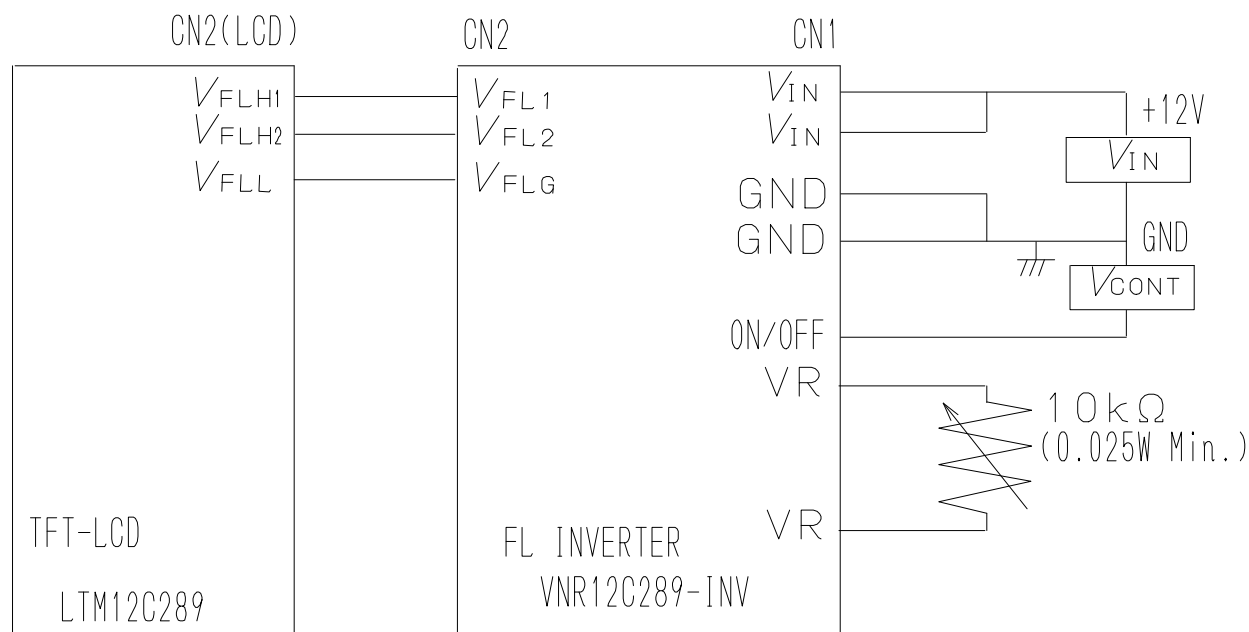
Item	Symbol	Min.	Typ.	Max.	Unit	
Supply Voltage	V_{IN}	10.8	12.0	13.2	V	
Input Current ($V_{IN}=12V$)	I_{IN}	-	650	750	mA	
Open Output Voltage	V_{OPEN}	1500	-	-	V(0-p _{pk})	
Frequency	f	35	40	45	kHz	
Rush Current ($V_{IN}=12V$)	I_{RUSH}	-	-	10	A(o-p)	
Leak Current ($V_{IN}=12V$)	I_{LEAK}	-	-	10	μA	
Output Current	Volume Max.	I_{FL}	11.0	12.0	13.0	mA(rms)
	Volume Min.		5.0	6.0	7.0	
$V_{ON/OFF}$ Signal Voltage ($V_{IN}=12V$)	V_{ON}	5.0	-	V_{IN}	V	
	V_{OFF}	0	-	0.7	V	

*3 : The characteristics without remarks are measured on condition with $V_{IN}=12V$ and VR-VR:short.

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*The information contained herein may be changed without prior notice. It is therefore advisable to contact Toshiba Matsushita Display Technology before proceeding with the design of equipment incorporating this product.

SCHEMATIC DIAGRAM OF INVERTER CONNECTION



CONNECTOR PIN ASSIGNMENT FOR INTERFACE

CN1 : 53261-0790 (JAPAN MOLEX CO.,LTD.)

[Mating Connector : Housing 51021-0700 Contact pin 50079-8100(AWG#26 28)]

Pin No.	Symbol	Function
1 ⁷	VIN	Supply Voltage : 12V (10.8~13.2V)
2 ⁸	VIN	Supply Voltage : 12V (10.8~13.2V)
3 ⁹	GND	0V
4 ⁷	GND	0V
5 ⁹	ON/OFF	"H" : FL ON, "L" : FL OFF
6	VR	Connect the Potentiometer(10kΩ) between VR(Pin No.6) and VR(Pin No.7)
7	VR	Connect the Potentiometer(10kΩ) between VR(Pin No.6) and VR(Pin No.7)

*7 : Connect the Potentiometer(10kΩ) for Luminance adjustment between "VR" and "VR" terminal.

0 Ω : Luminance MAX.

10kΩ : Luminance MIN.

In case, electrical circuit or toggle switch adjust the luminance instead of potentiometer, please avoid VR-VR to open.

If VR-VR is open for any period of time, it is possible that inverter is not work normally.

CN2, CN3 : SM04(4.0)B-BHS-1 (JAPAN SOLDERLESS TERMINAL MFG CO.,LTD.)

Pin No.	Symbol	Function
1	V_{FLH1}	Output Power Supply for FL1 (High Voltage)
2	V_{FLH2}	Output Power Supply for FL2 (High Voltage)
3	NC	No Connection
4	V_{FLL}	Output Power Supply for FL (Low Voltage)