

# Ignition Gate Drive IC

## FAN1110B-F085

### Description

The FAN1110B-F085 is designed to directly drive an ignition IGBT and control the current and spark event of the coil. The coil current is controlled via the input pin. When the differential input is driven high, the output of the FAN1110B

# FAN1110B iF085

## ORDERING INFORMATION

Part Number	Operating Temperature Range	Package	Shipping †
FAN1110B iF085	-40°C to 150°C	8 iSOIC	2500 units / Tape & Reel onsemi.com



# FAN1110B iF085

## Package Outline

The FAN1110BiF085 is assembled in an 8 lead SOIC Package.

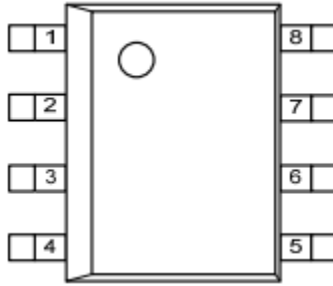


Figure 3. Pin Assignment (Top View)

## PIN DESCRIPTION

Name	Type	Description
Pin1	GND	Ground Reference of the Control IC
Pin2	INL	Input ground signal
Pin3	INH	Positive input signal referenced to INL
Pin4	CSSD	Adjust maximum dwell time (to external capacitor)
Pin5	NC	
Pin6	Output	Gate Drive to the IGBT
Pin7	V <sub>SENSE</sub>	Sense Input used for Ilim function
Pin 8	V <sub>BAT</sub>	Supply voltage

## ABSOLUTE MAXIMUM RATINGS ( i140°C to 150°C unless otherwise stated)

Symbol	Parameter	Min.	Max.	Unit
V <sub>BAT</sub>	Voltage at V <sub>BAT</sub> pin (excl. EMC transients)	i0.3	28	V
V <sub>INH</sub>	Voltage at Input pin High	i5	18	V
V <sub>INL</sub>	Voltage at Input pin Low	i5	18	V
V <sub>CSSD</sub>	Voltage at C <sub>SSD</sub>	i0.3	5	V
V <sub>OUTPUT</sub>	Voltage at Gate Output	i0.3	6.5	V
V <sub>SENSE</sub>	Voltage on V <sub>SENSE</sub> pin	0	400	mV

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## RECOMMENDED OPERATING CONDITIONS (Reference Load Characteristics) (Note 1)

Symbol	Characteristic	Min.	Typ.	Max.	Units
$I_{Ctyp}$	Collector (Coil) Operating Current		12		A
$L_P$	Coil Primary Inductance		1.5		mH
$R_P$	Coil Primary Resistance (25°C)		0.4		
$R_{LOAD}$	Load Resistance (for delay time measurements)		2		

Functional



FAN1110B IF085

PACKAGE DIMENSIONS

SOIC8  
CASE 751EB  
ISSUE A

