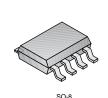
Hendon

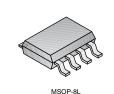


# **HENDON Integrated Circuits**

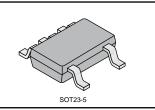
ROHS Compliant This product is RoHS compliant.











#### FAST DUAL BI-DIRECTIONAL BUS BUFFER/REPEATER

Using analog design principles, the IES5501 is a true bi-directional bus buffer for use in 2-wire bus systems such as  $I^2C^{TM}$ , SMBus<sup>TM</sup>, PMBus<sup>TM</sup> & IPMB etc\*. The function of the bus buffer is to extend the bus load limit by buffering the Clock (SCL) and Data (SDA) lines.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Hendon	1 donage	Supply Voltage (Vcc) Output Low Voltage	Input Low Threshold	Bus Voltage	Operating Ambient	Price Each				
	STOCK NO.	Part No.	Type	Supply Vollage (VCC)	(Vol)	Input Low Threshold	bus voltage	Temperature	1	200	500
	792-IES5501T 792-IES5501D	IES5501T IES5501D	SO-8 MSOP-8L	2.7 - 5.5V 2.7 - 5.5V	Vil + 30mV Vil + 30mV	0.3Vcc 0.3Vcc	1.8 – 15V 1.8 – 15V	-40 to +85°C -40 to +85°C			

## FAST DUAL BI-DIRECTIONAL BUS BUFFER WITH HOT INSERTION LOGIC

Using analog design principles, the IES5502 is a true dual bi-directional bus buffer for use in 2-wire bus systems such as IPC™, SMBus™, PMBus™ & IPMB or other systems where hot insertion logic for detecting stop and idle conditions is required for live insertion into backplanes.

For quantities of 1000 and up, call for quote.

MOUSER	Hendon	Package	Supply Voltage (Vcc)	y Voltage (Vcc) Output Low Voltage (Vol) Input Low Threshold Bus Voltage	Operating Ambient	Р	rice Eacl	h		
STOCK NO.	Part No.	Туре	Supply Voltage (VCC)	(Vol)	input Low Threshold	bus voltage	Temperature	1	200	500
792-IES5502T 792-IES5502D	IES5502T IES5502D	SO-8 MSOP-8L	2.7 - 5.5V 2.7 - 5.5V	Vil + 85mV Vil + 85mV	0.3Vcc 0.3Vcc	1.8 – 15V 1.8 – 15V	-40 to +85°C -40 to +85°C			

#### SIMPLE 2-WIRE BUS BUFFER/BUS REPEATER

The IES5505 (4mA) and IES5515 (30mA) are monolithic CMOS integrated circuits designed for applications where a full-featured bus buffer is not required. Their simple characteristics are suitable for quick implementation in most two-wire bus applications.

For quantities of 1000 and up, call for quote

MOUSER	Hendon	Package	Supply Voltage (Vcc)	Output Low Voltage	Input Low Threshold	Bus Voltage	Operating Ambient	Р	rice Eacl	h
STOCK NO.	Part No.	Type	Supply Vollage (VCC)	(Vol)	Input Low Threshold	Bus voltage	Temperature	1	200	500
792-IES5505D 792-IES5507T 792-IES5515T 792-IES5515D	IES5505D IES5507T IES5515T IES5515D	MSOP-8L SO-16 SO-8 MSOP-8L	2.7 - 5.5V 2.7 - 5.5V 2.7 - 5.5V 2.7 - 5.5V	80mV @ 4mA 80mV @ 30mA 80mV @ 30mA 80mV @ 30mA	0.5V 0.5V 0.5V 0.5V	1.8 – 15V 1.8 – 15V 1.8 – 15V 1.8 – 15V	-40 to +85°C -40 to +85°C -40 to +85°C -40 to +85°C			

## **TEMPERATURE CONTROL ICS**

Hendon Semiconductors temperature control integrated circuits have been designed specifically to cover a wide range of simple, low cost thermostat applications with particular attention to increased performance and sensing capabilities in AC applications.

For quantities of 1000 and up, call for quote

MOUSER		Hendon	Package	Description	Output Current	Operating Ambient	P	rice Eacl	h
ST	OCK NO.	Part No.	Type	Description	cription Output Current		1	200	500
792-0	M1654AT	OM1654AT	SO-8	Simple Zero-Crossing Triac Control	10mA	0° to +100°C			
792-IE	ES5521AT	IES5521AT	SO-8	Zero Crossing Triac Control with Time-Out	10mA	-25° to +100°C			
792-IE	ES5523AT	IES5523AT	SO-8	Simple Zero-Crossing Triac Control	10mA	-25° to +100°C			
792-0	M1682AT	OM1682AT	SO-16	Precision Triac Control Thermostat	50mA	0° to +125°C			
792-0	M1894T	OM1894T	SO-16	Dual Precision Triac Control Thermostat	50mA	0° to +125°C			
792-0	M1895BT	OM1895BT	SO-8	Simmerstat Triac Control IC	50mA	0° to +85°C			

# **POWER AND MAINS PHASE CONTROL ICS**

## Phase Control and General Purpose Triac Triggering Circuit

The OM5428 provides basic AC phase control and also has on/off switching mode designed to switch at mains zero crossingsto minimize RF interference and mains transients.

Another feature of the OM5428 includes time proportional control that provides more accurate temperature control by avoiding temperature overshoot that is apparent in basic on/off control. For quantities of 1000 and up, call for quote

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MOUSER	Hendon	Package	Supply Current Max. (-IEE)	Output Current	On a ration Ambient Temperature	Price Each					
STOCK NO.	Part No.	Part No.	Part No.	Part No.	Туре	Supply Current Max. (-ILL)	Output Current	Operating Ambient Temperature	1	200	500
792-IES5528	IES5528T	SO-16	250μΑ	80mA	-40 to +85°C						

#### LED DRIVER ICS

### Low Voltage LED Driver and Voltage Boost Circuit

The OM5448 is a low voltage bipolar integrated circuit that can operate on a supply voltage of 3.5V to as low as 1V DC. The most important characteristic of the OM5448 is to provide single or multiple LED drive from a single cell battery or other low voltage source with minimal external components.

For quantities of 1000 and up, call for quote

MOUSE		Package	Supply Voltage (Vcc)	Output Current	Output Drive Voltage	LED Output Max	Operating Ambient	Р	rice Eac	h
STOCK N	D. Part No.	Туре	Supply Vollage (VCC)	Max	Max	Power	Temperature	1	200	500
792-OM5448	R OM5448TR	SOT23-5	1 to 3.5V	500mA	14V	1W	-40 to +85°C			

## **RELAY CONTACT PROTECTION ICS**

The IES5541A contact protection circuitry can increase relay lifetime by as much as 10 fold. IES5541A provides effective relay contact protection against arcing with most types of AC loads. Inbuilt interface for NTC thermistor sensors provides direct stand-alone temperature control capability.

For quantities of 1000 and up, call for quote.

MOUSER	Hendon	Package	Supply Current Max. (-IEE)	Output Current	Oneration Ambient Temperature		rice Eacl	h
STOCK NO.	Part No.	Туре	Supply Current Max. (-IEE)	(ITRIG)	Operating Ambient Temperature	1	200	500
792-IES5541AT	IES5541AT	SO-8	210µA	50mA	0° to +100°C			

# **DEMO BOARDS**

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MOUSER STOCK NO.	Hendon Part No.	Description	Price Each
792-HM169-06	HM169-06	Demo Board for OM1682A that can be readily modified for multiple applications	
792-HM226-L	HM226-L	Demo Board for IES5541A - Logic Version	
792-HM226-T	HM226-T	Demo Board for IES5541A	
792-HM211	HM211	Demo Board for OM5428 set up as generic phase controller	
792-HM214	HM214	Demo Board for OM5448 LED Driver	
792-HM250	HM250	Demo Board for OM1654A, IES5521A	



