

MC34064P-005 Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	MC34064P-005-DG
Manufacturer	onsemi
Manufacturer Product Number	MC34064P-005
Description	IC SUPERVISOR 1 CHANNEL TO92-3
Detailed Description	Supervisor Open Drain or Open Collector 1 Channe l TO-92 (TO-226)

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MC34064P-005	onsemi
Series:	Product Status:
-	Obsolete
DiGi-Electronics Programmable:	Туре:
Not Verified	Simple Reset/Power-On Reset
Number of Voltages Monitored:	Voltage - Threshold:
1	4.6V
Output:	Reset:
Open Drain or Open Collector	Active Low
Reset Timeout:	Operating Temperature:
	0°C ~ 70°C (TA)
Mounting Type:	Package / Case:
Through Hole	TO-226-3, TO-92-3 Long Body
Supplier Device Package:	Base Product Number:
TO-92 (TO-226)	MC34064

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

DiGi is a global authorized distributor of electronic components.

onsemi

DATA SHEET

Undervoltage Sensing Circuit

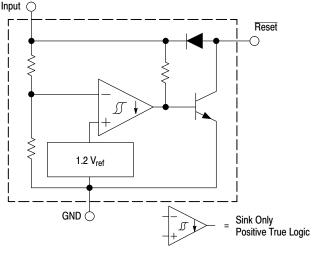
MC34064, MC33064, NCV33064

The MC34064 is an undervoltage sensing circuit specifically designed for use as a reset controller in microprocessor-based systems. It offers the designer an economical solution for low voltage detection with a single external resistor. The MC34064 features a trimmed–in–package bandgap reference, and a comparator with precise thresholds and built-in hysteresis to prevent erratic reset operation. The open collector reset output is capable of sinking in excess of 10 mA, and operation is guaranteed down to 1.0 V input with low standby current. The MC devices are packaged in 3–pin TO-92, micro size TSOP–5, 8–pin SOIC–8 and Micro8 surface mount packages. The NCV device is packaged in SOIC–8 and TO–92.

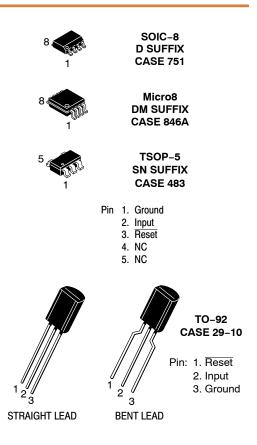
Applications include direct monitoring of the 5.0 V MPU/logic power supply used in appliance, automotive, consumer and industrial equipment.

Features

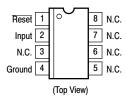
- Trimmed-In-Package Temperature Compensated Reference
- Comparator Threshold of 4.6 V at 25°C
- Precise Comparator Thresholds Guaranteed Over Temperature
- Comparator Hysteresis Prevents Erratic Reset
- Reset Output Capable of Sinking in Excess of 10 mA
- Internal Clamp Diode for Discharging Delay Capacitor
- Guaranteed Reset Operation with 1.0 V Input
- Low Standby Current
- Economical TO-92, TSOP-5, SOIC-8 and Micro8 Surface Mount Packages
- NCV Prefix for Automotive and Other Applications Requiring Site and Control Changes
- These Devices are Pb-Free and are RoHS Compliant



This device contains 21 active transistors. Figure 1. Representative Block Diagram







ORDERING INFORMATION

See detailed ordering and shipping information on page 6 of this data sheet.

DEVICE MARKING INFORMATION

See general marking information in the device marking section on page 7 of this data sheet.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Power Input Supply Voltage	V _{in}	-1.0 to 10	V
Reset Output Voltage	V _O	10	V
Reset Output Sink Current (Note 2)	I _{Sink}	Internally Limited	mA
Clamp Diode Forward Current, Reset to Input Pin (Note 2)	١ _F	100	mA
Power Dissipation and Thermal Characteristics P Suffix, Plastic Package Maximum Power Dissipation @ $T_A = 25^{\circ}C$ Thermal Resistance, Junction-to-Air D Suffix, Plastic Package Maximum Power Dissipation @ $T_A = 25^{\circ}C$ Thermal Resistance, Junction-to-Air DM Suffix, Plastic Package Maximum Power Dissipation @ $T_A = 25^{\circ}C$ Thermal Resistance, Junction-to-Air	P _D R _{θJA} P _D R _{θJA} P _D R _{θJA}	625 200 625 200 520 240	mW °C/W °C/W °C/W °C/W
Operating Junction Temperature	Т _Ј	+150	°C
Operating Ambient Temperature MC34064 MC33064 NCV33064	T _A	0 to +70 -40 to +85 -40 to +125	°C
Storage Temperature Range	T _{stg}	–65 to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. ESD data available upon request.

ELECTRICAL CHARACTERISTICS (For typical values $T_A = 25^{\circ}C$, for min/max values T_A is the operating ambient temperature range that applies [Notes 3 and 4] unless otherwise noted.)

Characteristics	Symbol	Min	Тур	Max	Unit
COMPARATOR		•			
Threshold Voltage High State Output (V _{in} Increasing) Low State Output (V _{in} Decreasing) Hysteresis	V _{IH} VIL V _H	4.5 4.5 0.01	4.61 4.59 0.02	4.7 4.7 0.05	V
RESET OUTPUT	-				
Output Sink Saturation (V _{in} = 4.0 V, I _{Sink} = 8.0 mA) (V _{in} = 4.0 V, I _{Sink} = 2.0 mA) (V _{in} = 1.0 V, I _{Sink} = 0.1 mA)	V _{OL}	- - -	0.46 0.15 -	1.0 0.4 0.1	V
Output Sink Current (V _{in} , Reset = 4.0 V)	I _{Sink}	10	27	60	mA
Output Off-State Leakage (V _{in} , Reset = 5.0 V)	I _{OH}	-	0.02	0.5	μA
Clamp Diode Forward Voltage, Reset to Input Pin ($I_F = 10 \text{ mA}$)	V _F	0.6	0.9	1.2	V
TOTAL DEVICE					

Operating Input Voltage Range	V _{in}	1.0 to 6.5	-	I	V
Quiescent Input Current (V _{in} = 5.0 V)	l _{in}	-	390	500	μΑ

2. Maximum package power dissipation limits must be observed.

3. Low duty cycle pulse techniques are used during test to maintain junction temperature as close to ambient as possible.

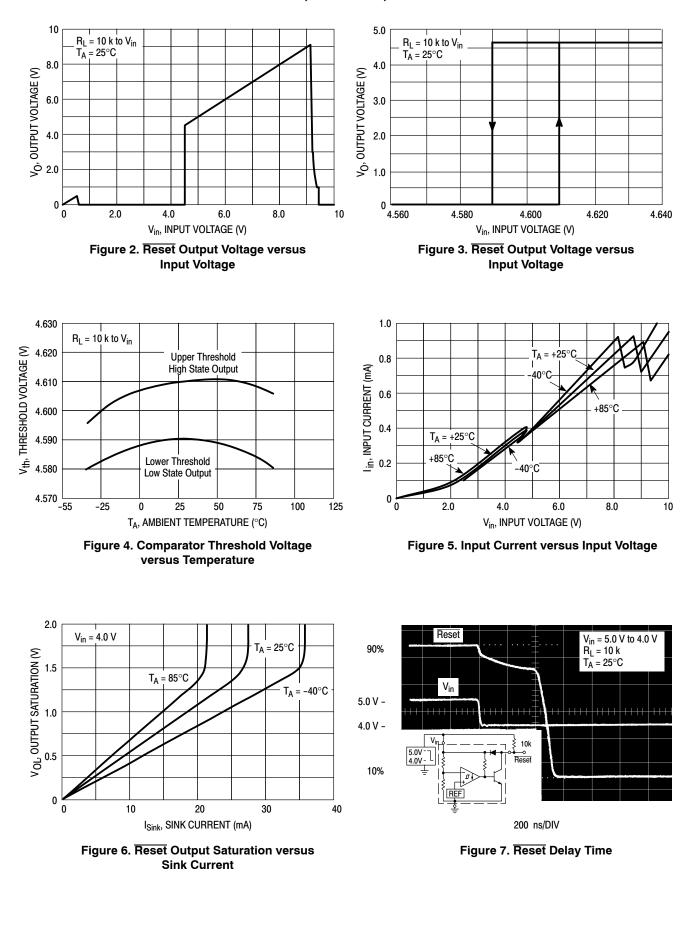
 $T_{high} = +70^{\circ}C$ for MC34064 4. $T_{low} = 0^{\circ}C$ for MC34064

-40°C for MC33064

+85°C for MC33064 +125°C for NCV33064

-40°C for NCV33064 5. NCV prefix is for automotive and other applications requiring site and change control.

MC34064, MC33064, NCV33064



MC34064, MC33064, NCV33064

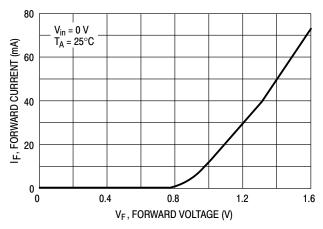


Figure 8. Clamp Diode Forward Current versus Voltage

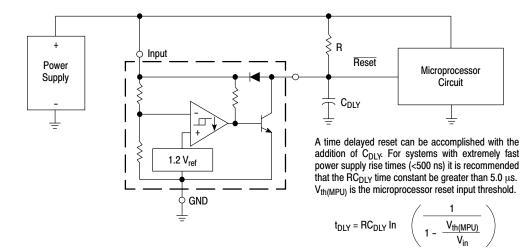
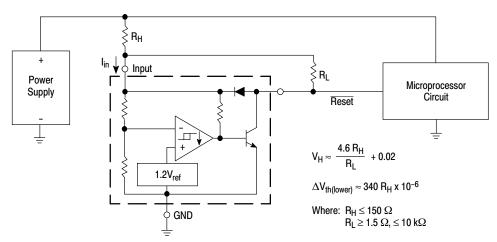


Figure 9. Low Voltage Microprocessor Reset

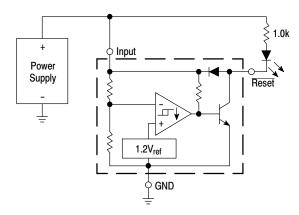


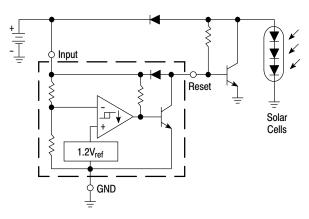
TEST DATA

V _H (mV)	∆V _{th} (mV)	R _H (Ω)	R _L (kΩ)
20	0	0	0
51	3.4	10	1.5
40	6.8	20	4.7
81	6.8	20	1.5
71	10	30	2.7
112	10	30	1.5
100	16	47	2.7
164	16	47	1.5
190	34	100	2.7
327	34	100	1.5
276	51	150	2.7
480	51	150	1.5

Comparator hysteresis can be increased with the addition of resistor $R_H.$ The hysteresis equation has been simplified and does not account for the change of input current I_{in} as V_{CC} crosses the comparator threshold (Figure 4). An increase of the lower threshold $\Delta V_{th(lower)}$ will be observed due to I_{in} which is typically 340 μA at 4.59 V. The equations are accurate to $\pm 10\%$ with R_H less than 150 Ω and R_L between 1.5 $k\Omega$ and 10 $k\Omega$.

Figure 10. Low Voltage Microprocessor Reset with Additional Hysteresis









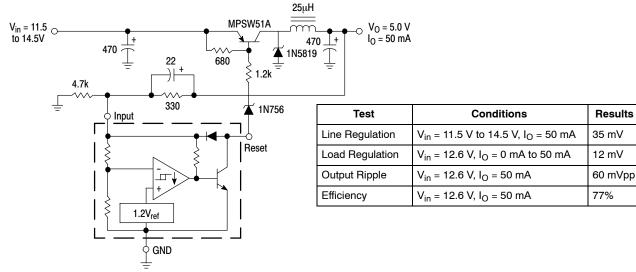
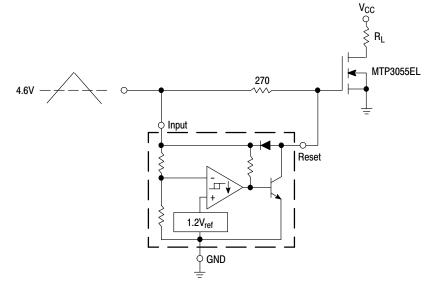


Figure 13. Low Power Switching Regulator



Overheating of the logic level power MOSFET due to insufficient gate voltage can be prevented with the above circuit. When the input signal is below the 4.6 V threshold of the MC34064, its output grounds the gate of the L² MOSFET.

Figure 14. MOSFET Low Voltage Gate Drive Protection

ORDERING INFORMATION

Device	Operating Temperature Range	Package	Shipping [†]
MC34064D-5G		SOIC-8 (Pb-Free)	98 Units / Rail
MC34064D-5R2G		SOIC-8 (Pb-Free)	2500 Units/ Tape & Reel
MC34064DM-5R2G		Micro8 (Pb–Free)	4000 Units / Tape & Reel
MC34064P-5G		TO–92 (Pb–Free)	2000 Units / Bag
MC34064P-5RAG	T _A = 0°C to +70°C	TO–92 (Pb–Free)	2000 Units / Tape & Reel
MC34064P-5RPG		TO–92 (Pb–Free)	2000 Units / Ammo Pack
MC34064P-5RMG		TO–92 (Pb–Free)	
MC34064SN-5T1G		TSOP–5 (Pb–Free)	3000 Units / Tape & Reel
MC33064D-5G		SOIC-8 (Pb-Free)	98 Units / Rail
MC33064D-5R2G		SOIC-8 (Pb-Free)	2500 Units / Tape & Reel
MC33064DM-5R2G		Micro8 (Pb–Free)	4000 Units / Tape & Reel
MC33064P-5G	$T_A = -40^{\circ}C$ to $+85^{\circ}C$	TO–92 (Pb–Free)	2000 Units / Bag
MC33064P-5RAG		TO–92 (Pb–Free)	2000 Units / Tape & Reel
MC33064P-5RPG		TO–92 (Pb–Free)	2000 Units / Ammo Pack
MC33064SN-5T1G		TSOP-5 (Pb-Free)	3000 Units / Tape & Reel
NCV33064D-5R2G*		SOIC-8 (Pb-Free)	2500 Units / Tape & Reel
NCV33064P-5RAG*		TO–92 (Pb–Free)	2000 Units / Tape & Reel
NCV33064P-5RPG*	−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−	TO–92 (Pb–Free)	2000 Units / Ammo Pack
NCV33064DM-5R2G*		Micro8 (Pb-Free)	4000 Units / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, pleaserefer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.
 *NCV33064: T_{low} = -40°C, T_{high} = +125°C. Guaranteed by design. NCV prefix is for automotive and other applications requiring site and the prediction of the predictin of the prediction of the prediction of the prediction of t

change control.

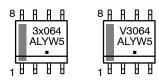
MARKING DIAGRAMS

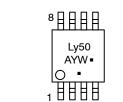
Micro8

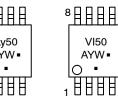
DM SUFFIX

CASE 846A

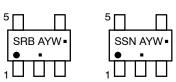
SOIC-8 D SUFFIX CASE 751







TSOP-5 **SN SUFFIX CASE 483**



MC34064

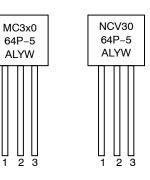
MC33064

х	= 3 or 4
у	= C or I
Α	= Assembly Location
L	 Wafer Lot
Y	= Year
W	 Work Week
•	= Pb-Free Package

(Note: Microdot may be in either location)

TO-92 **P SUFFIX** CASE 029

2



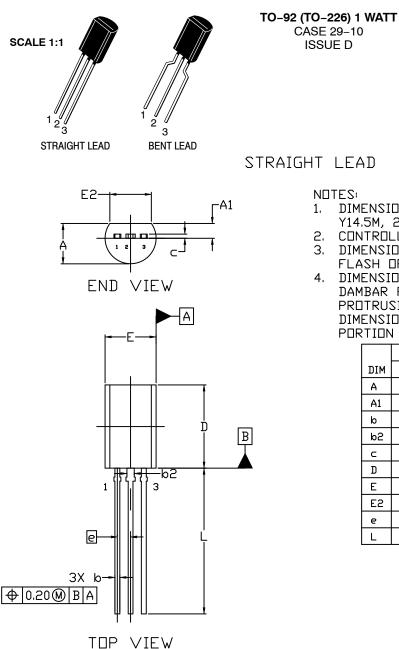


semi

MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

DATE 05 MAR 2021



NDTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
- CONTROLLING DIMENSION: MILLIMETERS
- 3. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH DR GATE PROTRUSIONS.
- DIMENSION 6 AND 62 DOES NOT INCLUDE DAMBAR PROTRUSION. LEAD WIDTH INCLUDING PROTRUSION SHALL NOT EXCEED 0.20. DIMENSION 62 LOCATED ABOVE THE DAMBAR PORTION OF MIDDLE LEAD.

	MILLIMETERS		
DIM	MIN.	NDM.	MAX.
Α	3.75	3.90	4.05
A1	1.28	1.43	1.58
b	0.38	0.465	0.55
b2	0.62	0.70	0.78
с	0.35	0.40	0.45
D	7.85	8.00	8.15
Е	4.75	4.90	5.05
E2	3.90		
е	1.27 BSC		
L	13.80	14.00	14.20

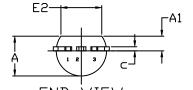
STYLES AND MARKING ON PAGE 3

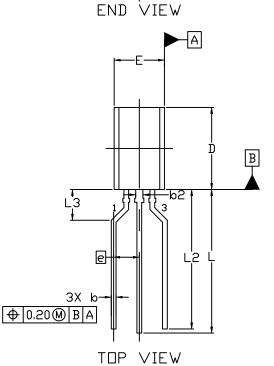
DOCUMENT NUMBER:	98AON52857E Electronic versions are uncontrolled except when accessed directly from the Document Repository Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	TO-92 (TO-226) 1 WATT		PAGE 1 OF 3
onsemi and ONSEMi are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.			

TO-92 (TO-226) 1 WATT CASE 29-10 ISSUE D

DATE 05 MAR 2021

FORMED LEAD





NDTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 3. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR GATE PROTRUSIONS.
- 4. DIMENSION b AND b2 DOES NOT INCLUDE DAMBAR PROTRUSION. LEAD WIDTH INCLUDING PROTRUSION SHALL NOT EXCEED 0.20. DIMENSION b2 LOCATED ABOVE THE DAMBAR PORTION OF MIDDLE LEAD.

	MILLIMETERS		
DIM	MIN.	NDM.	MAX.
Α	3.75	3.90	4.05
A1	1.28	1.43	1.58
b	0.38	0.465	0.55
b2	0.62	0.70	0.78
с	0.35	0.40	0.45
D	7.85	8.00	8.15
E	4.75	4.90	5.05
E2	3.90		
e	2.50 BSC		
L	13.80	14.00	14.20
L2	13.20	13.60	14.00
L3	3.00 REF		

STYLES AND MARKING ON PAGE 3

DOCUMENT NUMBER:	98AON52857E	Electronic versions are uncontrolled except when accessed directly from the Printed versions are uncontrolled except when stamped "CONTROLLED CONTROLLED CONTROL CONTROL CONTROLCONTROLLED CONTROL C	
DESCRIPTION:	TO-92 (TO-226) 1 WATT		PAGE 2 OF 3
the right to make changes without furth purpose, nor does onsemi assume ar	er notice to any products herein. onsemi make ny liability arising out of the application or use	LLC dba onsemi or its subsidiaries in the United States and/or other cours on owarranty, representation or guarantee regarding the suitability of its pr of any product or circuit, and specifically disclaims any and all liability, incl e under its patent rights nor the rights of others.	oducts for any particular

TO-92 (TO-226) 1 WATT CASE 29-10 ISSUE D

DATE 05 MAR 2021

STYLE 5: PIN 1. DRAIN 2. SOURCE 3. GATE

STYLE 10: PIN 1. CATHODE 2. GATE 3. ANODE

STYLE 15: PIN 1. ANODE 1 2. CATHODE 3. ANODE 2

STYLE 20: PIN 1. NOT CONNECTED 2. CATHODE 3. ANODE STYLE 25: PIN 1. MT 1

2. GATE 3. MT 2 STYLE 30: PIN 1. DRAIN

2. GATE 3. SOURCE

PIN 1. GATE 2. COLLECTOR 3. EMITTER

STYLE 35:

	EMITTER BASE COLLECTOR					3.	CATHODE CATHODE ANODE
STYLE 6: PIN 1. 2. 3.	GATE SOURCE & SUBSTRATE DRAIN	STYLE 7: PIN 1. 2. 3.	SOURCE DRAIN GATE	STYLE 8: PIN 1. 2. 3.	DRAIN GATE SOURCE & SUBSTRATE	STYLE 9: PIN 1. 2. 3.	BASE 1 EMITTER BASE 2
STYLE 11: PIN 1. 2. 3.		2. 3.	GATE MAIN TERMINAL 2	2. 3.	GATE CATHODE 2	STYLE 14: PIN 1. 2. 3.	EMITTER COLLECTOR
STYLE 16: PIN 1. 2. 3.	GATE CATHODE	2. 3.	BASE EMITTER	2. 3.	ANODE CATHODE NOT CONNECTED	STYLE 19: PIN 1. 2. 3.	GATE
2.	COLLECTOR EMITTER BASE	2.	SOURCE GATE DRAIN	STYLE 23: PIN 1. 2. 3.	GATE		EMITTER COLLECTOR/ANODE CATHODE
STYLE 26: PIN 1. 2. 3.	: V _{CC} GROUND 2 OUTPUT	PIN 1. 2.	MT SUBSTRATE MT	STYLE 28 PIN 1. 2. 3.		2.	NOT CONNECTED
STYLE 31: PIN 1. 2. 3.	GATE DRAIN SOURCE	STYLE 32: PIN 1. 2. 3.	BASE COLLECTOR EMITTER	STYLE 333 PIN 1. 2. 3.	RETURN INPUT OUTPUT	STYLE 34: PIN 1. 2. 3.	INPUT GROUND

GENERIC MARKING DIAGRAM*

XXXXX XXXXX ALYW

XXXX = Specific Device Code

- A = Assembly Location
- L = Wafer Lot
- Y = Year
- W = Work Week
 - = Pb-Free Package

(Note: Microdot may be in either location)

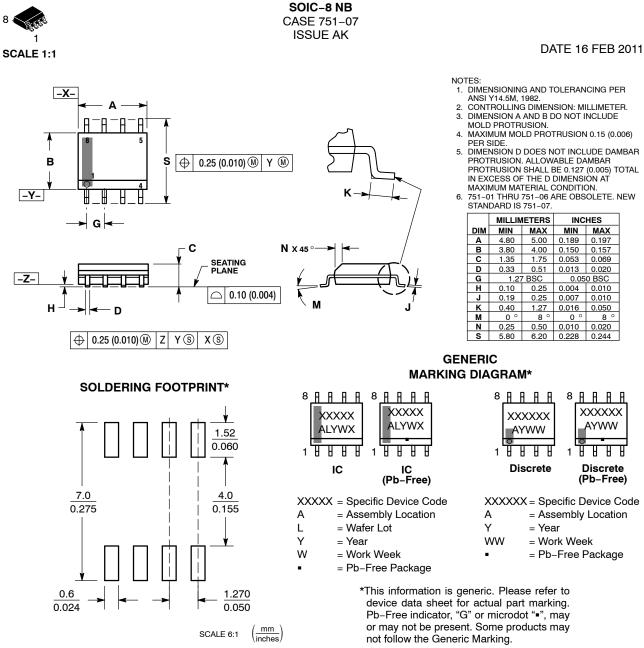
*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

DOCUMENT NUMBER:	98AON52857E	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	TO-92 (TO-226) 1 WATT		PAGE 3 OF 3	

onsemi and ONSEMI are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.



PACKAGE DIMENSIONS



*For additional information on our Pb–Free strategy and soldering details, please download the **onsemi** Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

STYLES ON PAGE 2

DOCUMENT NUMBER:	98ASB42564B	Electronic versions are uncontrolled except when accessed directly from the Printed versions are uncontrolled except when stamped "CONTROLLED to the stamped "CONTROLLED to the stamped statement of the stamped statement of the s	
DESCRIPTION:	SOIC-8 NB		PAGE 1 OF 2
	ulus of Consistent durates Companyate Industries		
the right to make changes without furth purpose, nor does onsemi assume a	ner notice to any products herein. onsemi make ny liability arising out of the application or use	LLC dba onsem ior its subsidiaries in the United States and/or other cour as no warranty, representation or guarantee regarding the suitability of its pr of any product or circuit, and specifically disclaims any and all liability, inc e under its patent rights nor the rights of others.	oducts for any particular

SOIC-8 NB CASE 751-07 **ISSUE AK**

STYLE 1: PIN 1. EMITTER COLLECTOR 2. 3. COLLECTOR 4. EMITTER 5. EMITTER BASE 6. 7 BASE EMITTER 8. STYLE 5: PIN 1. DRAIN 2. DRAIN 3. DRAIN DRAIN 4. GATE 5. 6. GATE SOURCE 7. 8. SOURCE STYLE 9: PIN 1. EMITTER, COMMON COLLECTOR, DIE #1 COLLECTOR, DIE #2 2. З. EMITTER, COMMON 4. 5. EMITTER, COMMON 6 BASE. DIE #2 BASE, DIE #1 7. 8. EMITTER, COMMON STYLE 13: PIN 1. N.C. 2. SOURCE 3 GATE 4. 5. DRAIN 6. DRAIN DRAIN 7. DRAIN 8. STYLE 17 PIN 1. VCC 2. V2OUT V10UT 3. TXE 4. 5. RXE 6. VFF 7. GND 8. ACC STYLE 21: CATHODE 1 PIN 1. 2. CATHODE 2 3 CATHODE 3 CATHODE 4 4. 5. CATHODE 5 6. COMMON ANODE COMMON ANODE 7. 8. CATHODE 6 STYLE 25: PIN 1. VIN 2 N/C REXT З. 4. GND 5. IOUT IOUT 6. IOUT 7. 8. IOUT STYLE 29: BASE, DIE #1 PIN 1. 2 EMITTER, #1 BASE, #2 З. EMITTER, #2 4. 5 COLLECTOR, #2 COLLECTOR, #2

STYLE 2: PIN 1. COLLECTOR, DIE, #1 2. COLLECTOR, #1 COLLECTOR, #2 3. 4 COLLECTOR, #2 BASE, #2 5. EMITTER, #2 6. 7 BASE #1 EMITTER, #1 8. STYLE 6: PIN 1. SOURCE 2. DRAIN 3. DRAIN SOURCE 4. SOURCE 5. 6. GATE GATE 7. 8. SOURCE STYLE 10: GROUND PIN 1. BIAS 1 OUTPUT 2. З. GROUND 4. 5. GROUND 6 BIAS 2 INPUT 7. 8. GROUND STYLE 14: PIN 1. N-SOURCE 2. N-GATE P-SOURCE 3 P-GATE 4. P-DRAIN 5 6. P-DRAIN N-DRAIN 7. N-DRAIN 8. STYLE 18 PIN 1. ANODE 2. ANODE SOURCE 3. GATE 4. 5. DRAIN 6 DRAIN CATHODE 7. CATHODE 8. STYLE 22 PIN 1. I/O LINE 1 2. COMMON CATHODE/VCC 3 COMMON CATHODE/VCC 4. I/O LINE 3 COMMON ANODE/GND 5. 6. I/O LINE 4 7. I/O LINE 5 8. COMMON ANODE/GND STYLE 26: PIN 1. GND 2 dv/dt З. ENABLE 4. ILIMIT 5. SOURCE SOURCE 6. SOURCE 7. 8. VCC STYLE 30: DRAIN 1 PIN 1. DRAIN 1 2 GATE 2 З. SOURCE 2 4. SOURCE 1/DRAIN 2 SOURCE 1/DRAIN 2 5.

6.

7.

8 GATE 1

SOURCE 1/DRAIN 2

STYLE 3: DRAIN, DIE #1 PIN 1. DRAIN, #1 2. DRAIN, #2 З. DRAIN, #2 4. GATE, #2 5. SOURCE, #2 6. 7 GATE #1 8. SOURCE, #1 STYLE 7: PIN 1. INPUT 2. EXTERNAL BYPASS З. THIRD STAGE SOURCE GROUND 4. 5. DRAIN 6. GATE 3 SECOND STAGE Vd 7. FIRST STAGE Vd 8. STYLE 11: PIN 1. SOURCE 1 GATE 1 SOURCE 2 2. З. GATE 2 4. 5. DRAIN 2 6. DRAIN 2 DRAIN 1 7. 8. DRAIN 1 STYLE 15: PIN 1. ANODE 1 2. ANODE 1 ANODE 1 3 ANODE 1 4. 5. CATHODE, COMMON CATHODE, COMMON CATHODE, COMMON 6. 7. CATHODE, COMMON 8. STYLE 19: PIN 1. SOURCE 1 GATE 1 SOURCE 2 2. 3. GATE 2 4. 5. DRAIN 2 6. MIRROR 2 7. DRAIN 1 8. **MIRROR 1** STYLE 23: PIN 1. LINE 1 IN COMMON ANODE/GND COMMON ANODE/GND 2. 3 LINE 2 IN 4. LINE 2 OUT 5. COMMON ANODE/GND COMMON ANODE/GND 6. 7. 8. LINE 1 OUT STYLE 27: PIN 1. ILIMIT 2 OVI 0 З. UVLO 4. INPUT+ 5. SOURCE SOURCE 6. SOURCE 7. 8 DRAIN

DATE 16 FEB 2011

STYLE 4: PIN 1. 2. ANODE ANODE ANODE З. 4. ANODE ANODE 5. 6. ANODE 7 ANODE COMMON CATHODE 8. STYLE 8: PIN 1. COLLECTOR, DIE #1 2. BASE, #1 З. BASE #2 COLLECTOR, #2 4. COLLECTOR, #2 5. 6. EMITTER, #2 EMITTER, #1 7. 8. COLLECTOR, #1 STYLE 12: PIN 1. SOURCE SOURCE 2. 3. GATE 4. 5. DRAIN 6. DRAIN DRAIN 7. 8. DRAIN STYLE 16 EMITTER, DIE #1 PIN 1. 2. BASE, DIE #1 EMITTER, DIE #2 3 BASE, DIE #2 4. 5. COLLECTOR, DIE #2 6. COLLECTOR, DIE #2 COLLECTOR, DIE #1 7. COLLECTOR, DIE #1 8. STYLE 20: PIN 1. SOURCE (N) GATE (N) SOURCE (P) 2. 3. 4. GATE (P) 5. DRAIN 6. DRAIN DRAIN 7. 8. DRAIN STYLE 24: PIN 1. BASE EMITTER 2. 3 COLLECTOR/ANODE COLLECTOR/ANODE 4. 5. CATHODE 6. CATHODE COLLECTOR/ANODE 7. 8. COLLECTOR/ANODE STYLE 28: 11. SW_TO_GND 2. DASIC OFF PIN 1. DASIC_SW_DET З. 4. GND 5. 6. V MON VBULK 7. VBULK 8 VIN

DOCUMENT NUMBER:	98ASB42564B Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	SOIC-8 NB		PAGE 2 OF 2

onsemi and OnSemi are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.

6.

7.

8

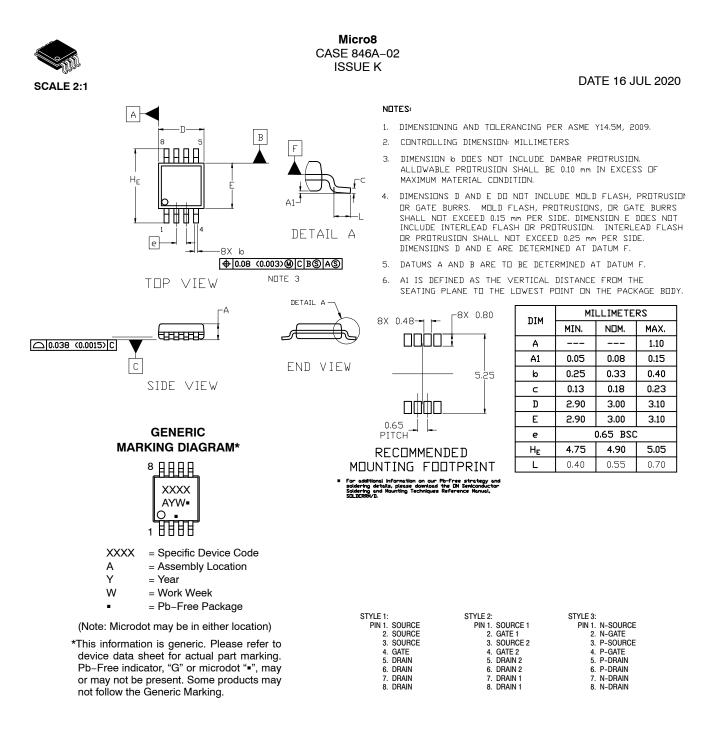
COLLECTOR, #1

COLLECTOR, #1

semi

MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



Electronic versions are uncontrolled except when accessed directly from the Document Repository. **DOCUMENT NUMBER:** 98ASB14087C Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red. **DESCRIPTION:** MICR08 PAGE 1 OF 1 onsemi and OnSemi are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. **onsemi** makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does **onsemi** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation

special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.

© Semiconductor Components Industries, LLC, 2019

onsemi, ONSEMI, and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries. onsemi owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of onsemi's product/patent coverage may be accessed at <u>www.onsemi.com/site/pdf/Patent-Marking.pdf</u>. onsemi reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and onsemi makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using onsemi products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by onsemi. "Typical" parameters which may be provided in onsemi data sheets and/or specification by customer's technical experts. onsemi does not curve any license under any of its intellectual property rights on the rights of others. onsemi products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use onsemi products for any such unintended or unauthorized application, Buyer shall indemnify and hold onsemi and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, cost

ADDITIONAL INFORMATION

TECHNICAL PUBLICATIONS:

Technical Library: <u>www.onsemi.com/design/resources/technical-documentation</u> onsemi Website: www.onsemi.com ONLINE SUPPORT: www.onsemi.com/support For additional information, please contact your local Sales Representative at www.onsemi.com/support/sales



OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

	<section-header></section-header>		
Marchine Marchine Marchine M	Market	Marchine Marchine Image: Control of the sector of the sec	





Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.