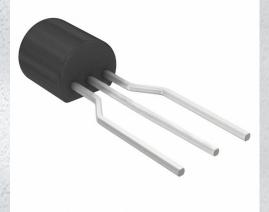


MC34064P-5RP Datasheet

www.digi-electronics.com



DiGi Electronics Part Number

Manufacturer

Manufacturer Product Number

Description

Detailed Description

MC34064P-5RP-DG

onsemi

MC34064P-5RP

IC SUPERVISOR 1 CHANNEL TO92-3

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-5RP	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Series:	Product Status:
	Obsolete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 (Formed Leads)
Supplier Device Package:	Base Product Number:
то-92 (то-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	

onsemi

DATA SHEET

Undervoltage Sensing Circuit

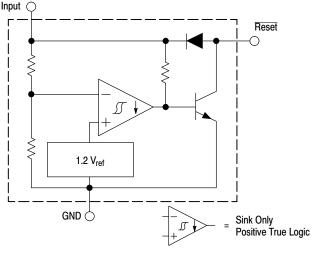
MC34064, MC33064, NCV33064

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.

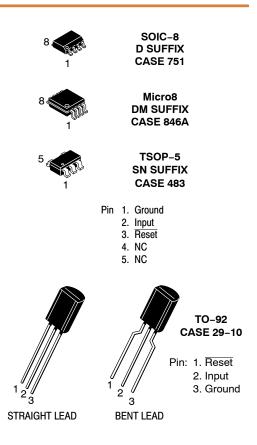
Applications include direct monitoring of the 5.0 V MPU/logic power supply used in appliance, automotive, consumer and industrial equipment.

Features

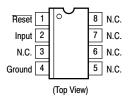
- Trimmed-In-Package Temperature Compensated Reference
- Comparator Threshold of 4.6 V at 25°C
- Precise Comparator Thresholds Guaranteed Over Temperature
- Comparator Hysteresis Prevents Erratic Reset
- Reset Output Capable of Sinking in Excess of 10 mA
- Internal Clamp Diode for Discharging Delay Capacitor
- 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



PIN CONNECTIONS



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.

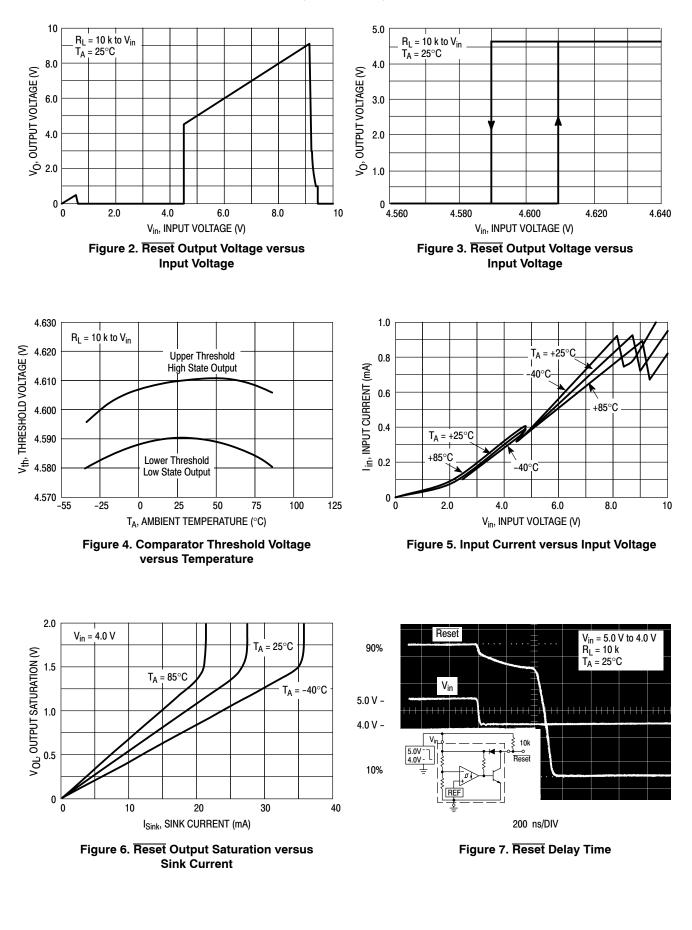
 $T_{high} = +70^{\circ}C$ for MC34064 4. $T_{low} = 0^{\circ}C$ for MC34064

-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

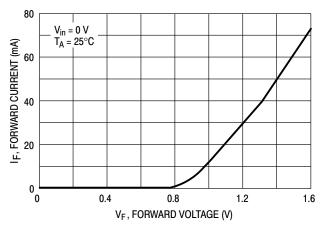


Figure 8. Clamp Diode Forward Current versus Voltage

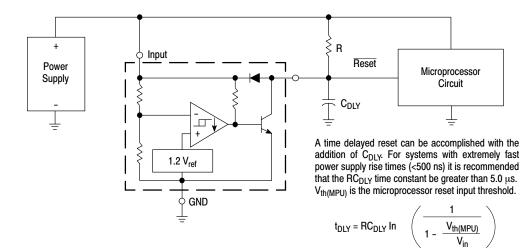
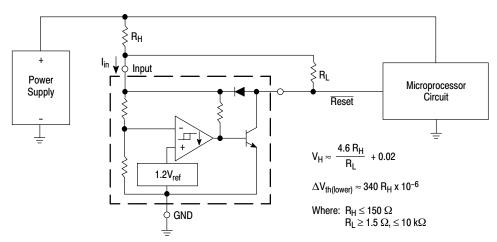


Figure 9. Low Voltage Microprocessor Reset

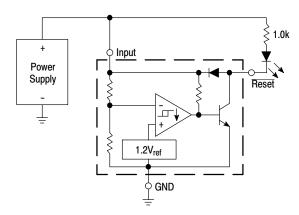


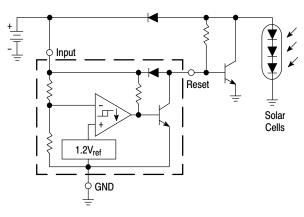
TEST DATA

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









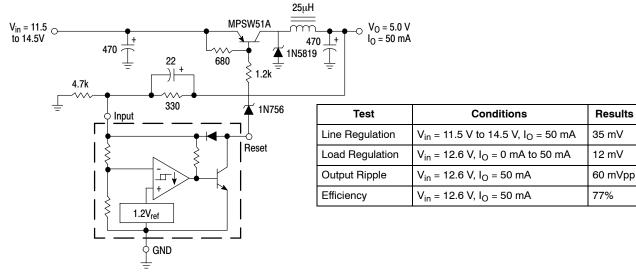
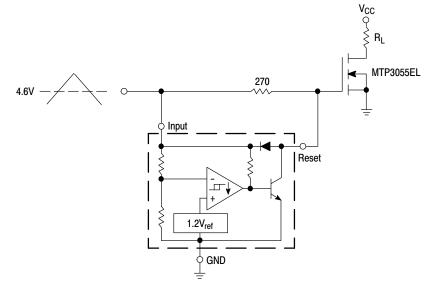


Figure 13. Low Power Switching Regulator



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.

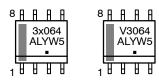
MARKING DIAGRAMS

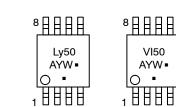
Micro8

DM SUFFIX

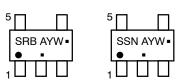
CASE 846A

SOIC-8 D SUFFIX CASE 751





TSOP-5 SN SUFFIX CASE 483



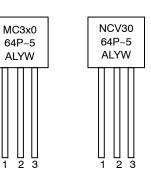
MC34064

MC33064

х	= 3 or 4
у	= C or I
A	= 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

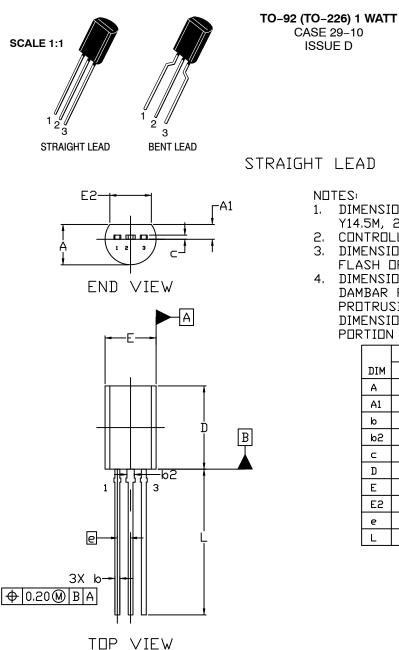


semi

MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

DATE 05 MAR 2021



- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
- CONTROLLING DIMENSION: MILLIMETERS
- 3. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR 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			
e	1.27 BSC			
L	13.80	14.00	14.20	

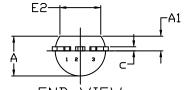
STYLES AND MARKING ON PAGE 3

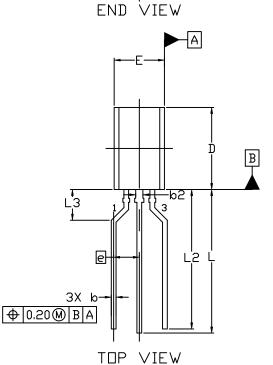
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TO-92 (TO-226) 1 WATT CASE 29-10 ISSUE D

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			

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

DATE 05 MAR 2021

STYLE 5:

PIN 1. 2.	EMITTER BASE COLLECTOR	PIN 1. 2.	BASE EMITTER COLLECTOR		ANODE ANODE CATHODE
	GATE SOURCE & SUBSTRATE DRAIN	PIN 1. 2.	SOURCE DRAIN GATE	STYLE 8: PIN 1. 2. 3.	DRAIN
2.		PIN 1. 2.	MAIN TERMINAL 1 Gate Main Terminal 2	2.	ANODE 1 GATE
2.	ANODE GATE CATHODE	PIN 1.	COLLECTOR BASE EMITTER	STYLE 18: PIN 1. 2. 3.	
2.	COLLECTOR EMITTER BASE	PIN 1. 2.	SOURCE GATE DRAIN	STYLE 23: PIN 1. 2. 3.	GATE SOURCE
2.	V _{CC} GROUND 2 OUTPUT	PIN 1. 2.	MT SUBSTRATE MT	STYLE 28: PIN 1. 2. 3.	CATHODE ANODE
2.	GATE DRAIN SOURCE	2.	BASE COLLECTOR EMITTER		return Input Output

STYLE 4: PIN 1. CATHODE 2. CATHODE 3. ANODE STYLE 9: PIN 1. BASE 1 EMITTER 2. RCE & SUBSTRATE 3. BASE 2 STYLE 14: PIN 1. EMITTER 2. COLLECTOR 3. BASE STYLE 19: PIN 1. GATE 2. ANODE CONNECTED 3. CATHODE STYLE 24: PIN 1. EMITTER 2. COLLECTOR/ANODE 3. CATHODE STYLE 29: PIN 1. NOT CONNECTED 2. ANODE 3. CATHODE STYLE 34: PIN 1. INPUT 2. GROUND 3. LOGIC

PIN 1. DRAIN SOURCE 2. 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 STYLE 35: PIN 1. GATE 2. COLLECTOR 3. EMITTER

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)

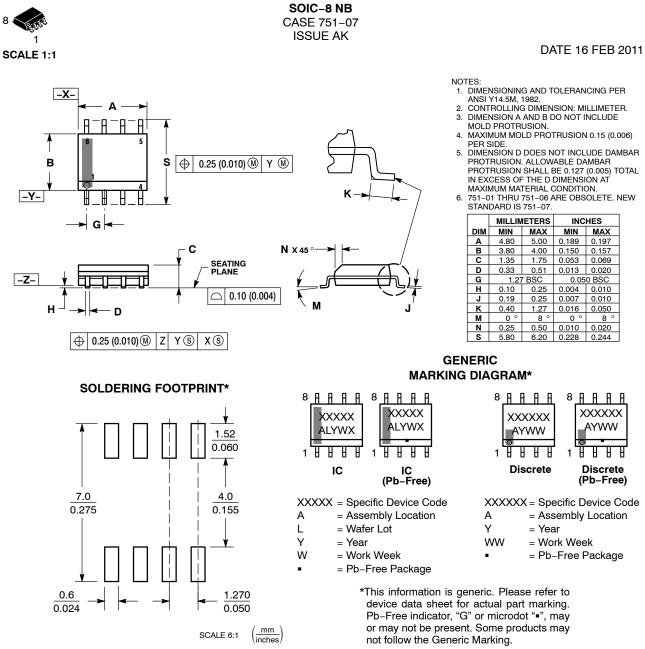
*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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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

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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 MIRROR 1 8. 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. COLLECTOR/ANODE 8. 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

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6.

7.

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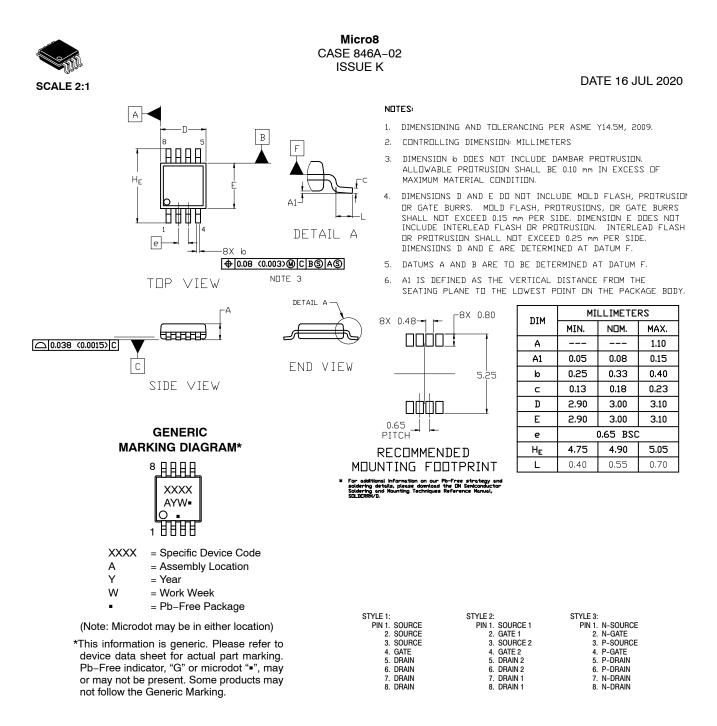
COLLECTOR, #1

COLLECTOR, #1

semi

MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



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