

Complementary Bias Resistor Transistors R1 = 47 k Ω , R2 = 47 k Ω

NPN and PNP Transistors with Monolithic Bias Resistor Network

MUN5313DW1, NSBC144EPDXV6, NSBC144EPDP6

This series of digital transistors is designed to replace a single device and its external resistor bias network. The Bias Resistor Transistor (BRT) contains a single transistor with a monolithic bias network consisting of two resistors; a series base resistor and a base-emitter resistor. The BRT eliminates these individual components by integrating them into a single device. The use of a BRT can reduce both system cost and board space.

Features

- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable*
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

MAXIMUM RATINGS

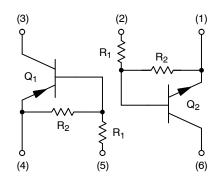
(T_A = 25°C both polarities Q₁ (PNP) & Q₂ (NPN), unless otherwise noted)

Rating	Symbol	Max	Unit
Collector-Base Voltage	V _{CBO}	50	Vdc
Collector-Emitter Voltage	V _{CEO}	50	Vdc
Collector Current - Continuous	I _C	100	mAdc
Input Forward Voltage	$V_{IN(fwd)}$	40	Vdc
Input Reverse Voltage	V _{IN(rev)}	10	Vdc

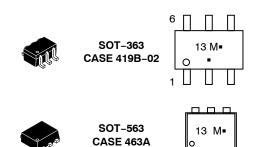
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1

PIN CONNECTIONS



MARKING DIAGRAMS





13/K = Specific Device Code M = Date Code* ■ Pb-Free Package

(Note: Microdot may be in either location)

*Date Code orientation may vary depending upon manufacturing location.

ORDERING INFORMATION

See detailed ordering, marking, and shipping information on page 2 of this data sheet.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 2.

ORDERING INFORMATION

Device	Package	Shipping [†]
MUN5313DW1T1G, SMUN5313DW1T1G*	SOT-363	3,000 / Tape & Reel
SMUN5313DW1T3G*	SOT-363	10,000 / Tape & Reel
NSBC144EPDXV6T1G NSVBC144EPDXV6T1G*	SOT-563	4,000 / Tape & Reel

DISCONTINUED (Note 1)

NSBC144EPDXV6T5G	SOT-563	8,000 / Tape & Reel
NSBC144EPDP6T5G	SOT-963	8,000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

THERMAL CHARACTERISTICS

	Characteristic	Symbol	Max	Unit
MUN5313DW1 (SOT-363)	ONE JUNCTION HEATED			
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above 25°C	(Note 2) (Note 3) (Note 2) (Note 3)	P _D	187 256 1.5 2.0	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 2) (Note 3)	$R_{ hetaJA}$	670 490	°C/W
MUN5313DW1 (SOT-363)	BOTH JUNCTION HEATED (Note 4)	•		
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above 25°C	(Note 2) (Note 3) (Note 2) (Note 3)	P _D	250 385 2.0 3.0	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 2) (Note 3)	$R_{ heta JA}$	493 325	°C/W
Thermal Resistance, Junction to Lead	(Note 2) (Note 3)	$R_{ hetaJL}$	188 208	°C/W
Junction and Storage Temp	erature Range	T _J , T _{stg}	-55 to +150	°C
NSBC144EPDXV6 (SOT-5	63) ONE JUNCTION HEATED			
Total Device Dissipation T _A = 25°C Derate above 25°C	(Note 2) (Note 2)	P _D	357 2.9	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 2)	$R_{ hetaJA}$	350	°C/W
NSBC144EPDXV6 (SOT-5	63) BOTH JUNCTION HEATED (Note 4)	•		
Total Device Dissipation T _A = 25°C Derate above 25°C	(Note 2) (Note 2)	P _D	500 4.0	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 2)	R_{\thetaJA}	250	°C/W
Junction and Storage Temp	perature Range	T _J , T _{stq}	-55 to +150	°C

^{1.} **DISCONTINUED:** These devices are not recommended for new design. Please contact your **onsemi** representative for information. The most current information on these devices may be available on www.onsemi.com.

THERMAL CHARACTERISTICS

	Characteristic	Symbol	Max	Unit	
NSBC144EPDP6 (SOT-963) ONE JUNCTION HEATED					
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above 25°C	(Note 5) (Note 6) (Note 5) (Note 6)	P _D	231 269 1.9 2.2	MW mW/°C	
Thermal Resistance, Junction to Ambient	(Note 5) (Note 6)	$R_{ hetaJA}$	540 464	°C/W	
NSBC144EPDP6 (SOT-9	63) BOTH JUNCTION HEATED (Note 4)	T			
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above 25°C	(Note 5) (Note 6) (Note 5) (Note 6)	P _D	339 408 2.7 3.3	MW mW/°C	
Thermal Resistance, Junction to Ambient	(Note 5) (Note 6)	$R_{ hetaJA}$	369 306	°C/W	
Junction and Storage Tem	perature Range	T _J , T _{stg}	-55 to +150	°C	

- FR-4 @ Minimum Pad.
 FR-4 @ 1.0 x 1.0 Inch Pad.
- Both junction heated values assume total power is sum of two equally powered channels.
 FR-4 @ 100 mm², 1 oz. copper traces, still air.
 FR-4 @ 500 mm², 1 oz. copper traces, still air.

ELECTRICAL CHARACTERISTICS (T_A = 25°C both polarities Q₁ (PNP) & Q₂ (NPN), unless otherwise noted)

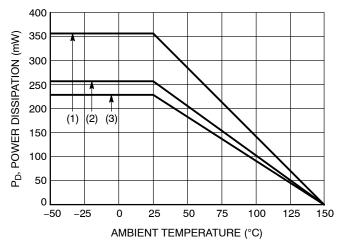
Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS					
Collector-Base Cutoff Current (V _{CB} = 50 V, I _E = 0)	Ісво	-	_	100	nAdc
Collector-Emitter Cutoff Current (V _{CE} = 50 V, I _B = 0)	ICEO	-	_	500	nAdc
Emitter-Base Cutoff Current $(V_{EB} = 6.0 \text{ V}, I_{C} = 0)$	I _{EBO}	-	_	0.1	mAdc
Collector-Base Breakdown Voltage ($I_C = 10 \mu A, I_E = 0$)	V _{(BR)CBO}	50	_	_	Vdc
Collector-Emitter Breakdown Voltage (Note 7) $(I_C = 2.0 \text{ mA}, I_B = 0)$	V _{(BR)CEO}	50	_	_	Vdc
ON CHARACTERISTICS					
DC Current Gain (Note 7) ($I_C = 5.0 \text{ mA}, V_{CE} = 10 \text{ V}$)	h _{FE}	80	140	_	
Collector-Emitter Saturation Voltage (Note 7) $(I_C = 10 \text{ mA}, I_B = 0.3 \text{ mA})$	V _{CE(sat)}	-	-	0.25	V
Input Voltage (Off) ($V_{CE} = 5.0 \text{ V}, I_{C} = 100 \mu\text{A}$) (NPN) ($V_{CE} = 5.0 \text{ V}, I_{C} = 100 \mu\text{A}$) (PNP)	V _{i(off)}	- -	1.2 1.2	- -	Vdc
Input Voltage (On) $(V_{CE} = 0.2 \text{ V}, I_{C} = 3.0 \text{ mA}) \text{ (NPN)}$ $(V_{CE} = 0.2 \text{ V}, I_{C} = 3.0 \text{ mA}) \text{ (PNP)}$	V _{i(on)}	- -	1.9 2.0	- -	Vdc
Output Voltage (On) (V _{CC} = 5.0 V, V _B = 3.5 V, R _L = 1.0 k Ω)	V _{OL}	-	_	0.2	Vdc
Output Voltage (Off) (V_{CC} = 5.0 V, V_{B} = 0.5 V, R_{L} = 1.0 k Ω)	V _{OH}	4.9		_	Vdc

 $\textbf{ELECTRICAL CHARACTERISTICS} \ (T_A = 25^{\circ}\text{C both polarities Q}_1 \ (PNP) \ \& \ Q_2 \ (NPN), \ unless \ otherwise \ noted)$

Characteristic	Symbol	Min	Тур	Max	Unit
ON CHARACTERISTICS					
Input Resistor	R1	32.9	47	61.1	kΩ
Resistor Ratio	R ₁ /R ₂	0.8	1.0	1.2	

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

7. Pulsed Condition: Pulse Width = 300 ms, Duty Cycle ≤ 2%.



- (1) SOT-363; 1.0×1.0 Inch Pad
- (2) SOT-563; Minimum Pad
- (3) SOT-963; 100 mm², 1 oz. Copper Trace

Figure 1. Derating Curve

TYPICAL CHARACTERISTICS – NPN TRANSISTOR MUN5313DW1, NSBC144EPDXV6

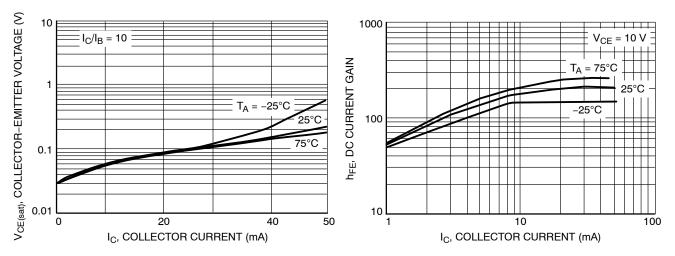


Figure 2. V_{CE(sat)} vs. I_C

Figure 3. DC Current Gain

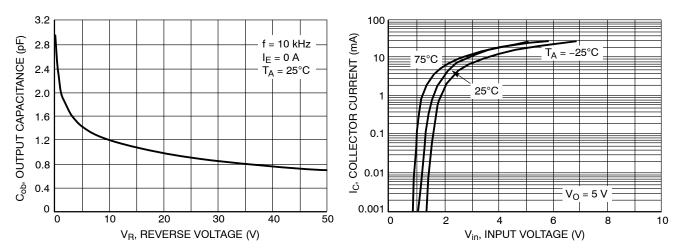


Figure 4. Output Capacitance

Figure 5. Output Current vs. Input Voltage

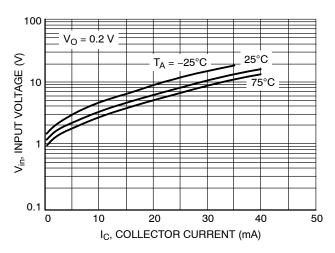


Figure 6. Input Voltage vs. Output Current

TYPICAL CHARACTERISTICS – PNP TRANSISTOR MUN5313DW1, NSBC144EPDXV6

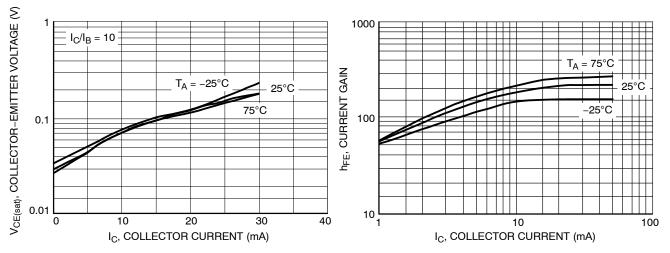


Figure 7. $V_{\text{CE(sat)}}$ vs. I_{C}

Figure 8. DC Current Gain

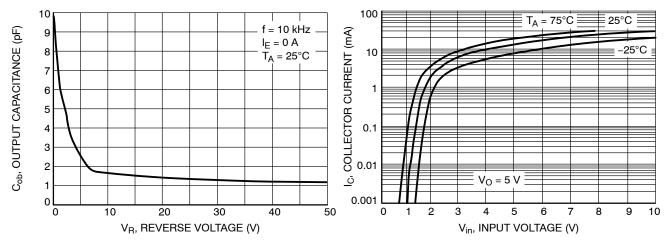


Figure 9. Output Capacitance

Figure 10. Output Current vs. Input Voltage

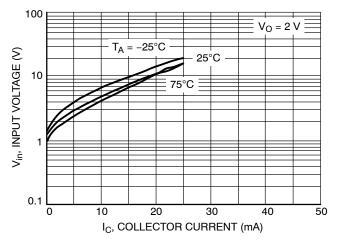


Figure 11. Input Voltage vs. Output Current

TYPICAL CHARACTERISTICS – NPN TRANSISTOR NSBC144EPDP6

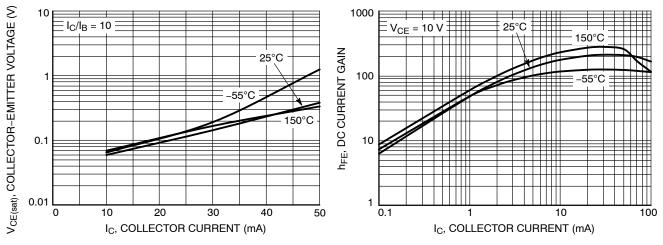


Figure 12. V_{CE(sat)} vs. I_C

Figure 13. DC Current Gain

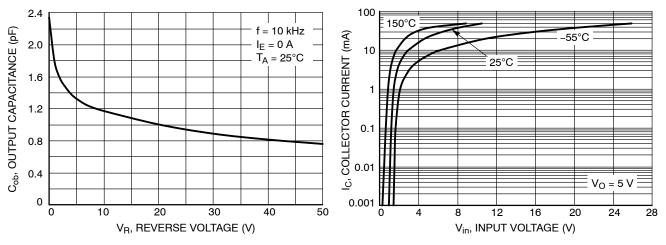


Figure 14. Output Capacitance

Figure 15. Output Current vs. Input Voltage

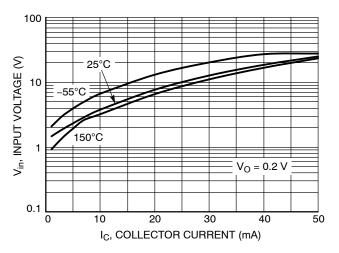
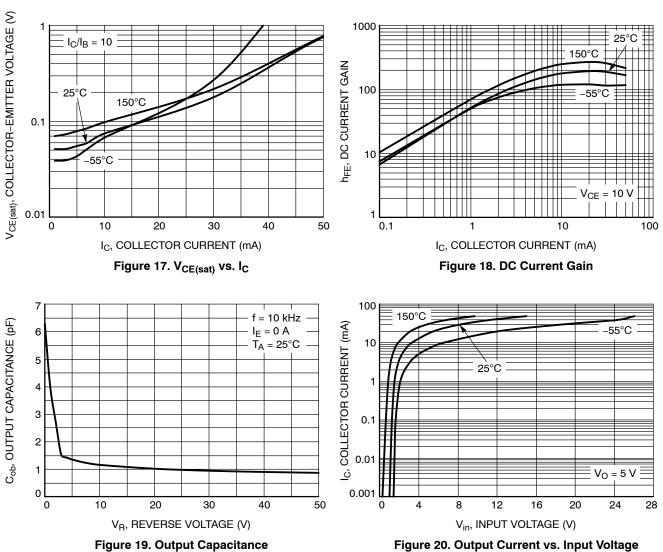


Figure 16. Input Voltage vs. Output Current

TYPICAL CHARACTERISTICS - PNP TRANSISTOR NSBC144EPDP6



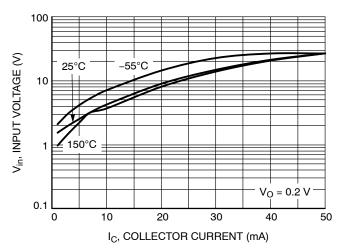


Figure 21. Input Voltage vs. Output Current





E1

6X 0.30 -

e

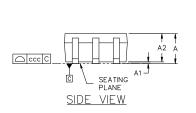
В

SC-88 2.00x1.25x0.90, 0.65P CASE 419B-02 **ISSUE Z**

DATE 18 APR 2024

NOTES:

- DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- ALL DIMENSION ARE IN MILLIMETERS.
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.20 PER END.
- DIMENSIONS D AND E1 AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY AND DATUM H.
 DATUMS A AND B ARE DETERMINED AT DATUM H.
- DIMENSIONS 6 AND C APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.08 AND 0.15 FROM THE TIP. 6.
- DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 TOTAL IN EXCESS OF DIMENSION 6 AT MAXIMUM MATERIAL CONDITION. THE DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT.



TOP VIEW

∆aaa H A−B

<u></u> БЬБ С

⊕ ddd M C A−B D

6X 0.66

2.50





	MILLIMETERS			
DIM	MIN.	NOM.	MAX.	
Α			1.10	
A1	0.00		0.10	
A2	0.70	0.90	1.00	
b	0.15	0.20	0.25	
С	0.08	0.15	0.22	
D	2.00 BSC			
E	2.10 BSC			
E1	1.25 BSC			
е		0.65 BSC	;	
L	0.26	0.36	0.46	
L2	0.15 BSC			
aaa	0.15			
bbb	0.30			
ccc	0.10			
ddd	0.10			

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code = Date Code*

= Pb-Free Package

(Note: Microdot may be in either location)

- *Date Code orientation and/or position may vary depending upon manufacturing 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.

RECOMMENDED MOUNTING FOOTPRINT*

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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SC-88 2.00x1.25x0.90, 0.65P CASE 419B-02 ISSUE Z

DATE 18 APR 2024

STYLE 1: PIN 1. EMITTER 2 2. BASE 2 3. COLLECTOR 1 4. EMITTER 1 5. BASE 1 6. COLLECTOR 2	STYLE 2: CANCELLED	STYLE 3: CANCELLED	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. COLLECTOR 4. EMITTER 5. BASE 6. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. COLLECTOR 4. EMITTER 5. BASE 6. CATHODE	STYLE 6: PIN 1. ANODE 2 2. N/C 3. CATHODE 1 4. ANODE 1 5. N/C 6. CATHODE 2
STYLE 7: PIN 1. SOURCE 2 2. DRAIN 2 3. GATE 1 4. SOURCE 1 5. DRAIN 1 6. GATE 2	STYLE 8: CANCELLED	STYLE 9: PIN 1. EMITTER 2 2. EMITTER 1 3. COLLECTOR 1 4. BASE 1 5. BASE 2 6. COLLECTOR 2	STYLE 10: PIN 1. SOURCE 2 2. SOURCE 1 3. GATE 1 4. DRAIN 1 5. DRAIN 2 6. GATE 2	STYLE 11: PIN 1. CATHODE 2 2. CATHODE 2 3. ANODE 1 4. CATHODE 1 5. CATHODE 1 6. ANODE 2	STYLE 12: PIN 1. ANODE 2 2. ANODE 2 3. CATHODE 1 4. ANODE 1 5. ANODE 1 6. CATHODE 2
STYLE 13: PIN 1. ANODE 2. N/C 3. COLLECTOR 4. EMITTER 5. BASE 6. CATHODE	STYLE 14: PIN 1. VREF 2. GND 3. GND 4. IOUT 5. VEN 6. VCC	STYLE 15: PIN 1. ANODE 1 2. ANODE 2 3. ANODE 3 4. CATHODE 3 5. CATHODE 2 6. CATHODE 1	STYLE 16: PIN 1. BASE 1 2. EMITTER 2 3. COLLECTOR 2 4. BASE 2 5. EMITTER 1 6. COLLECTOR 1	STYLE 17: PIN 1. BASE 1 2. EMITTER 1 3. COLLECTOR 2 4. BASE 2 5. EMITTER 2 6. COLLECTOR 1	STYLE 18: PIN 1. VIN1 2. VCC 3. VOUT2 4. VIN2 5. GND 6. VOUT1
STYLE 19: PIN 1. I OUT 2. GND 3. GND 4. V CC 5. V EN 6. V REF	STYLE 20: PIN 1. COLLECTOR 2. COLLECTOR 3. BASE 4. EMITTER 5. COLLECTOR 6. COLLECTOR	STYLE 21: PIN 1. ANODE 1 2. N/C 3. ANODE 2 4. CATHODE 2 5. N/C 6. CATHODE 1	STYLE 22: PIN 1. D1 (i) 2. GND 3. D2 (i) 4. D2 (c) 5. VBUS 6. D1 (c)	STYLE 23: PIN 1. Vn 2. CH1 3. Vp 4. N/C 5. CH2 6. N/C	STYLE 24: PIN 1. CATHODE 2. ANODE 3. CATHODE 4. CATHODE 5. CATHODE 6. CATHODE
STYLE 25: PIN 1. BASE 1 2. CATHODE 3. COLLECTOR 2 4. BASE 2 5. EMITTER 6. COLLECTOR 1	STYLE 26: PIN 1. SOURCE 1 2. GATE 1 3. DRAIN 2 4. SOURCE 2 5. GATE 2 6. DRAIN 1	STYLE 27: PIN 1. BASE 2 2. BASE 1 3. COLLECTOR 1 4. EMITTER 1 5. EMITTER 2 6. COLLECTOR 2	STYLE 28: PIN 1. DRAIN 2. DRAIN 3. GATE 4. SOURCE 5. DRAIN 6. DRAIN	STYLE 29: PIN 1. ANODE 2. ANODE 3. COLLECTOR 4. EMITTER 5. BASE/ANODE 6. CATHODE	STYLE 30: PIN 1. SOURCE 1 2. DRAIN 2 3. DRAIN 2 4. SOURCE 2 5. GATE 1 6. DRAIN 1

Note: Please refer to datasheet for style callout. If style type is not called out in the datasheet refer to the device datasheet pinout or pin assignment.

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STYLE 4:

STYLE 10:

PIN 1. CATHODE 1

2. N/C 3. CATHODE 2

4. ANDDE 2

PIN 1. COLLECTOR 2. COLLECTOR

3. BASE

4. EMITTER
5. COLLECTOR
6. COLLECTOR

SOT-563-6 1.60x1.20x0.55, 0.50P CASE 463A **ISSUE J**

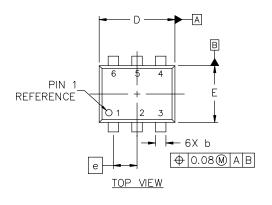
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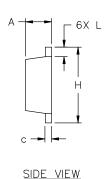
NOTES:

- 1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- ALL DIMENSION ARE IN MILLIMETERS.

DIM

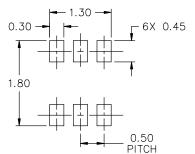
MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.





MIG	MIN.	N□M.	MAX.
А	0.50	0.55	0.60
b	0.17	0.22	0.27
С	0.08	0.13	0.18
D	1.50	1.60	1.70
E	1.10	1.20	1.30
е	0.50 BSC		
Н	1.50	1.60	1.70
L	0.10	0.20	0.30

MILLIMETERS



STYLE 1	STVI F. O.	STYLE O
STYLE 1:	STYLE 2:	STYLE 3:
PIN 1. EMITTER 1	PIN 1. EMITTER 1	PIN 1. CATHODE 1
2. BASE 1	2. EMITTER 2	2. CATHODE 1
3. COLLECTOR 2	3. BASE 2	3. ANODE/ANODE 2
4. EMITTER 2	4. COLLECTOR 2	4. CATHODE 2
5. BASE 2	5. BASE 1	5. CATHODE 2
6. COLLECTOR 1	6. COLLECTOR 1	6. ANODE/ANODE 1

STYLE 6: PIN 1. CATHODE 2. ANODE

CATHODE

CATHODE

4. CATHODE 5. CATHODE

RECOMMENDED	MOUNTING	FOOTPRINT*

FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

STYLE 7:	STYLE 8:	STYLE 9:
PIN 1. CATHODE	PIN 1. DRAIN	PIN 1. SOURCE 1
2. ANODE	2. DRAIN	2. GATE 1
3. CATHODE	3. GATE	3. DRAIN 2
4. CATHODE	4. SOURCE	4. SOURCE 2
5. ANDDE	5. DRAIN	5. GATE 2
6. CATHODE	6. DRAIN	6. DRAIN 1

PIN 1. EMITTER 2

2. BASE 2 3. COLLECTOR 1

4. EMITTER 1

STYLE 11:

STYLE 5:

3. ANDDE

PIN 1. CATHODE 2. CATHODE

4. ANDDE 5. CATHODE

6. CATHODE

GENERIC MARKING DIAGRAM*



XX = Specific Device Code M = Month Code

= Pb-Free Package

*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.

DESCRIPTION:	SOT-563-6 1.60x1.20x0.55	5, 0.50P	PAGE 1 OF 1
DOCUMENT NUMBER:	98AON11126D	Electronic versions are uncontrolled except when accessed directly from Printed versions are uncontrolled except when stamped "CONTROLLED	
	5. BASE 1 6. COLLECTOR 2	or may not be present. Some product not follow the Generic Marking.	ts may

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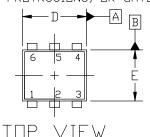


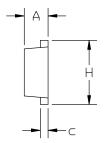
SOT-963 1.00x1.00x0.37, 0.35P CASE 527AD ISSUE F

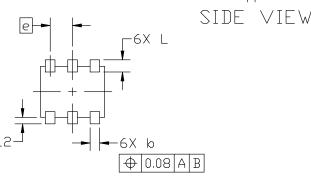
DATE 20 FEB 2024

NOTES:

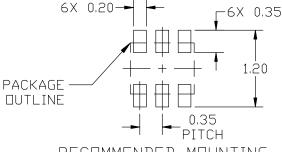
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. CONTROLLING DIMENSION: MILLIMETERS.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.







MILLIMETERS DIM MIN. $N\square M$. MAX. 0.37 0.40 Α 0.34 0.10 0.15 0.20 h \subset 0.07 0.12 0.17 D 0.95 1.00 1.05 Ε 0.75 0.80 0.85 0.35 BSC 6 Н 1.00 0.95 1.05 0.19 REF L2 0.05 0.10 0.15



RECOMMENDED MOUNTING FOOTPRINT

*For additional information on our Pb-Free strategy and soldering details, please download the DN Semiconductor Soldering and Mounting Techniques Reference manual, SDLDERRM/D.

BOTTOM VIEW

STYLE 1: PIN 1. EMITTER 1 2. BASE 1 3. COLLECTOR 2 4. EMITTER 2	STYLE 2: PIN 1. EMITTER 1 2. EMITTER2 3. BASE 2 4. COLLECTOR 2	STYLE 3: PIN 1. CATHODE 1 2. CATHODE 1 3. ANODE/ANODE 2 4. CATHODE 2
5. BASE 2 6. COLLECTOR 1	5. BASE 1 6. COLLECTOR 1	5. CATHODE 26. ANODE/ANODE 1
STYLE 4:	STYLE 5:	STYLE 6:

STYLE 4: PIN 1. COLLECTOR 2. COLLECTOR 3. BASE

STYLE 7:
PIN 1. CATHODE
2. ANODE
3. CATHODE
4. CATHODE
5. ANODE
6. CATHODE
STYLE 10:
PIN 1. CATHODE 1
2. N/C
3. CATHODE 2

4. ANODE 2

6. ANODE 1

5. N/C

STYLE 5: PIN 1. CATHODE 2. CATHODE 3. ANODE 4. ANODE 5. CATHODE

5. CATHODE 5
6. CATHODE 6
STYLE 8: STYLE
PIN 1. DRAIN PIN 1
2. DRAIN 2
3. GATE 3
4. SOURCE 4
5. DRAIN 5
6. DRAIN 6

STYLE 6: PIN 1. CATHODE 2. ANODE 3. CATHODE 4. CATHODE 5. CATHODE 6. CATHODE

STYLE 9: PIN 1. SOURCE 1 2. GATE 1 3. DRAIN 2 4. SOURCE 2 5. GATE 2 6. DRAIN 1 GENERIC
MARKING DIAGRAM*



XX = Specific Device CodeM = Month Code

*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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DESCRIPTION:	SOT-963 1.00x1.00x0.37, 0.35P		PAGE 1 OF 1

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