

Digital Transistors (BRT) R1 = 4.7 k Ω , R2 = 47 k Ω

PNP Transistors with Monolithic Bias Resistor Network

MUN2133, MMUN2133L, MUN5133, DTA143ZE, DTA143ZM3, NSBA143ZF3

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

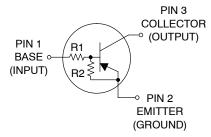
- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

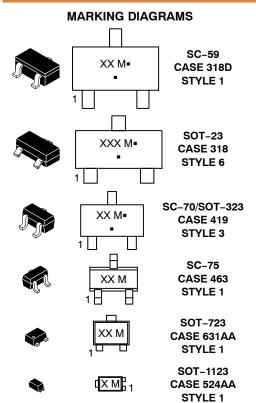
MAXIMUM RATINGS (T_A = 25°C)

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)}	30	Vdc
Input Reverse Voltage	V _{IN(rev)}	5	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.

PIN CONNECTIONS





XXX = Specific Device Code M = Date Code* ■ Pb-Free Package

(Note: Microdot may be in either 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.

^{*}Date Code orientation may vary depending upon manufacturing location.

Table 1. ORDERING INFORMATION

Device	Part Marking	Package	Shipping [†]
MUN2133T1G	6K	SC-59 (Pb-Free)	3000 / Tape & Reel
MMUN2133LT1G, NSVMMUN2133LT1G	A6K	SOT-23 (Pb-Free)	3000 / Tape & Reel
MUN5133T1G, SMUN5133T1G	6K	SC-70/SOT-323 (Pb-Free)	3000 / Tape & Reel
DTA143ZET1G, NSVDTA143ZET1G	6K	SC-75 (Pb-Free)	3000 / Tape & Reel
DTA143ZM3T5G	6K	SOT-723 (Pb-Free)	8000 / Tape & Reel

DISCONTINUED (Note 1)

(Pb-Free)	NSBA143ZF3T5G	E(90°)*		8000 / Tape & Reel
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[†]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.

^{1.} **DISCONTINUED:** This device is not recommended for new design. Please contact your **onsemi** representative for information. The most current information on this device may be available on www.onsemi.com.

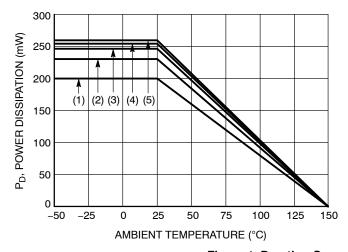


Figure 1. Derating Curve

- (1) SC-75 and SC-70/SOT-323; Minimum Pad
- (2) SC-59; Minimum Pad
- (3) SOT-23; Minimum Pad
- (4) SOT-1123; 100 mm², 1 oz. copper trace
- (5) SOT-723; Minimum Pad

 $^{*(}XX^{\circ})$ = Degree rotation in the clockwise direction.

Table 2. THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
THERMAL CHARACTERISTICS (SC-59) (MUN2133)			
Total Device Dissipation T _A = 25°C (Note 2) (Note 3) Derate above 25°C (Note 2) (Note 3)	P _D	230 338 1.8 2.7	mW mW/°C
Thermal Resistance, (Note 2) Junction to Ambient (Note 3)	$R_{ hetaJA}$	540 370	°C/W
Thermal Resistance, (Note 2) Junction to Lead (Note 3)	$R_{ heta JL}$	264 287	°C/W
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C
THERMAL CHARACTERISTICS (SOT-23) (MMUN2133L)	•	•	
Total Device Dissipation T _A = 25°C (Note 2) (Note 3) Derate above 25°C (Note 2) (Note 3)	P _D	246 400 2.0 3.2	mW mW/°C
Thermal Resistance, (Note 2) Junction to Ambient (Note 3)	$R_{ heta JA}$	508 311	°C/W
Thermal Resistance, (Note 2) Junction to Lead (Note 3)	$R_{ heta JL}$	174 208	°C/W
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C
Thermal Characteristics (SC-70/SOT-323) (MUN5133)	•	•	
Total Device Dissipation $T_{A} = 25^{\circ}C \text{ (Note 2)}$ (Note 3) $Derate above 25^{\circ}C \text{ (Note 2)}$ (Note 3)	P _D	202 310 1.6 2.5	mW mW/°C
Thermal Resistance, (Note 2) Junction to Ambient (Note 3)	$R_{ heta JA}$	618 403	°C/W
Thermal Resistance, (Note 2) Junction to Lead (Note 3)	$R_{ heta JL}$	280 332	°C/W
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C
Thermal Characteristics (SC-75) (DTA143ZE)			
Total Device Dissipation $T_{A} = 25^{\circ}\text{C (Note 2)} $ (Note 3) $Derate above 25^{\circ}\text{C (Note 2)} $ (Note 3)	P _D	200 300 1.6 2.4	mW mW/°C
Thermal Resistance, (Note 2) Junction to Ambient (Note 3)	$R_{ heta JA}$	600 400	°C/W
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C
Thermal Characteristics (SOT-723) (DTA143ZM3)	·		
Total Device Dissipation $T_{A} = 25^{\circ}C \text{(Note 2)} $ (Note 3) $Derate above 25^{\circ}C \text{ (Note 2)} $ (Note 3)	P _D	260 600 2.0 4.8	mW mW/°C
Thermal Resistance, (Note 2) Junction to Ambient (Note 3)	R_{\thetaJA}	480 205	°C/W
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C

Table 2. THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit	
Thermal Characteristics (SOT-1123) (NSBA143ZF3)			•	
Total Device Dissipation $T_A = 25^{\circ}C(\text{Note 4})$ (Note 5) $Derate above 25^{\circ}C \text{ (Note 4)}$ (Note 5)		P _D	254 297 2.0 2.4	mW mW/°C
Thermal Resistance, (Note 4) Junction to Ambient (Note 5)		$R_{ hetaJA}$	493 421	°C/W
Thermal Resistance, Junction to Lead	(Note 4)	$R_{ heta JL}$	193	°C/W
Junction and Storage Temperature Range		T _J , T _{stg}	-55 to +150	°C

^{2.} FR-4 @ Minimum Pad.

Table 3. ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$, unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS					
Collector-Base Cutoff Current (V _{CB} = 50 V, I _E = 0)	I _{CBO}	_	_	100	nAdc
Collector–Emitter Cutoff Current (V _{CE} = 50 V, I _B = 0)	I _{CEO}	-	-	500	nAdc
Emitter–Base Cutoff Current $(V_{EB} = 6.0 \text{ V}, I_C = 0)$	I _{EBO}	_	-	0.18	mAdc
Collector–Base Breakdown Voltage ($I_C = 10 \mu A, I_E = 0$)	V _(BR) CBO	50	-	-	Vdc
Collector–Emitter Breakdown Voltage (Note 6) (I _C = 2.0 mA, I _B = 0)	V _{(BR)CEO}	50	-	-	Vdc
ON CHARACTERISTICS		•	•		
DC Current Gain (Note 5) (I _C = 5.0 mA, V _{CE} = 10 V)	h _{FE}	80	140	-	
Collector – Emitter Saturation Voltage (Note 6) (I _C = 10 mA, I _B = 0.3 mA)	VCE(sat)	_	-	0.25	Vdc
Input Voltage (off) (V _{CE} = 5.0 V, I _C = 100 μ A)	V _{i(off)}	_	0.7	0.5	Vdc
Input Voltage (on) ($V_{CE} = 0.3 \text{ V}, I_{C} = 5.0 \text{ mA}$)	V _{i(on)}	1.3	0.9	-	Vdc
Output Voltage (on) (V _{CC} = 5.0 V, V _B = 2.5 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
Input Resistor	R1	3.3	4.7	6.1	kΩ
Resistor Ratio	R ₁ /R ₂	0.08	0.1	0.14	

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.

FR-4 @ 1.0 x 1.0 Inch Pad.
 FR -4 @ 100 mm², 1 oz. copper traces, still air.
 FR -4 @ 500 mm², 1 oz. copper traces, still air.

^{6.} Pulsed Condition: Pulse Width = 300 msec, Duty Cycle ≤ 2%.

TYPICAL CHARACTERISTICS MUN2133, MMUN2133L, MUN5133, DTA143ZE, DTA143ZM3

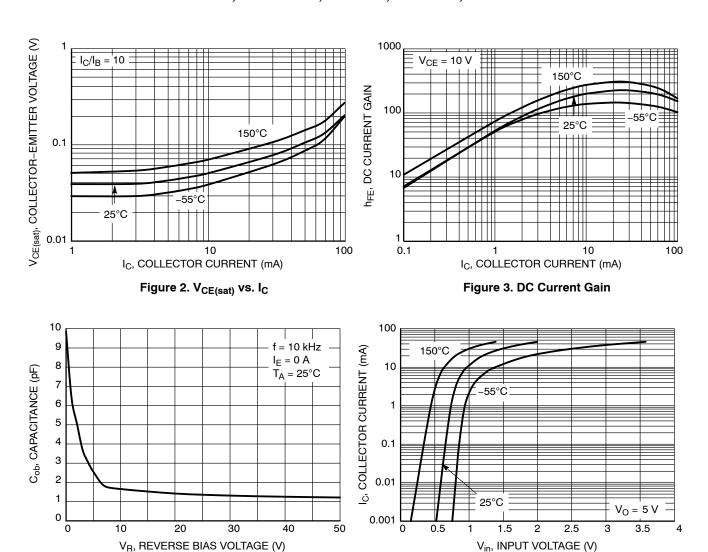


Figure 4. Output Capacitance

Figure 5. Output Current vs. Input Voltage

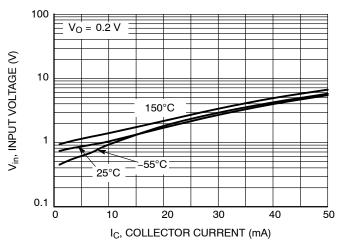


Figure 6. Input Voltage vs. Output Current

TYPICAL CHARACTERISTICS NSBA143ZF3

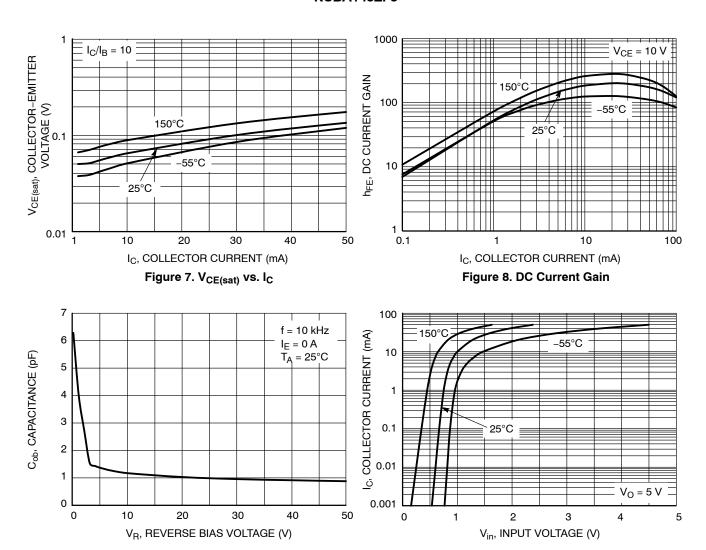


Figure 9. Output Capacitance

Figure 10. Output Current vs. Input Voltage

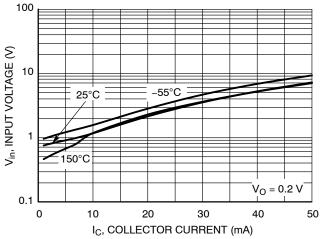


Figure 11. Input Voltage vs. Output Current

PACKAGE DIMENSIONS



SC-59-3 2.90x1.50x1.15, 1.90P CASE 318D ISSUE J

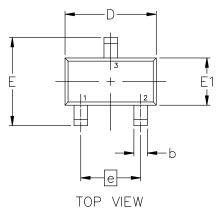
DATE 15 FEB 2024

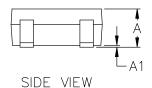
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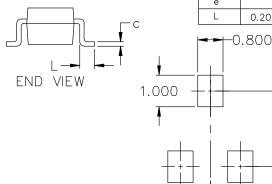
- DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- 2. ALL DIMENSION ARE IN MILLIMETERS.

	MI	LLIMETER	S
DIM	MIN.	NOM.	MAX.
Α	1.00	1.15	1.30
A1	0.01	0.06	0.10
Ь	0.35	0.43	0.50
С	0.09	0.14	0.18
D	2.70	2.90	3.10
E	2.50	2.80	3.00
E1	1.30	1.50	1.70
е	1.90 BSC		
L	0.20	0.60	

2.400







0.950 -

RECOMMENDED MOUNTING FOOTPRINT*

↓0.950

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

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code

M = Date Code

= Pb-Free Package*

(Note: Microdot may be in either location)

 STYLE 1:
 STYLE 2:
 STYLE 3:

 PIN 1. BASE
 PIN 1. ANODE
 PIN 1. ANODE

 2. EMITTER
 2. N.C.
 2. ANODE

 3. COLLECTOR
 3. CATHODE
 3. CATHODE

 STYLE 4:
 STYLE 5:
 STYLE 6:

 PIN 1. CATHODE
 PIN 1. CATHODE
 PIN 1. ANODE

 2. N.C.
 2. CATHODE
 2. CATHODE

 3. ANODE
 3. ANODE
 3. ANODE/CATHODE

^{*}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.

MILLIMETERS

MIN

0.89

0.01

0.37

0.08

2.80

1.20

1.78

0.30

0.35

2.10

O°

NOM

1.00

0.06

0.44

0.14

2.90

1.30

1.90

0.43

0.54

2.40





SOT-23 (TO-236) 2.90x1.30x1.00 1.90P **CASE 318 ISSUE AU**

DATE 14 AUG 2024

MAX

1.11

0.10

0.50

0.20

3.04

1.40

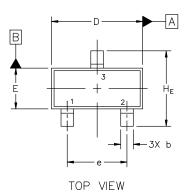
2.04

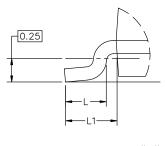
0.55

0.69

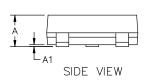
2.64

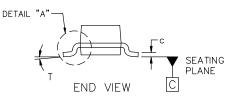
10°





DETAIL "A" Scale 3:1





2.90 3X 0.95 3X 0.56 -0.95 PITCH

NOTES:

DIM

Α

Α1

b

С

D

Ε

е L

L1

HE

Т

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

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code

= Date Code

= Pb-Free Package



* 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:	98ASB42226B	Electronic versions are uncontrolled except when accessed directly from Printed versions are uncontrolled except when stamped "CONTROLLED"	
DESCRIPTION:	SOT-23 (TO-236) 2.90x1.30x1.00 1.90P		PAGE 1 OF 2

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^{*}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.

SOT-23 (TO-236) 2.90x1.30x1.00 1.90P CASE 318 ISSUE AU

DATE 14 AUG 2024

STYLE 1 THRU 5: CANCELLED	STYLE 6: PIN 1. BASE 2. EMITTER 3. COLLECTOR			
STYLE 9: PIN 1. ANODE 2. ANODE 3. CATHODE	STYLE 10: PIN 1. DRAIN 2. SOURCE 3. GATE	2. CATHODE 2.	2: STYLE 13: CATHODE PIN 1. SOURCE CATHODE 2. DRAIN ANODE 3. GATE	STYLE 14: PIN 1. CATHODE 2. GATE 3. ANODE
STYLE 15: PIN 1. GATE 2. CATHODE 3. ANODE	STYLE 16: PIN 1. ANODE 2. CATHODE 3. CATHODE	2. ANODE 2.	3: STYLE 19: NO CONNECTION PIN 1. CATHODE CATHODE 2. ANODE ANODE 3. CATHODE-ANODE	STYLE 20: PIN 1. CATHODE 2. ANODE 3. GATE
STYLE 21: PIN 1. GATE 2. SOURCE 3. DRAIN	STYLE 22: PIN 1. RETURN 2. OUTPUT 3. INPUT			STYLE 26: PIN 1. CATHODE 2. ANODE 3. NO CONNECTION
STYLE 27: PIN 1. CATHODE 2. CATHODE 3. CATHODE	STYLE 28: PIN 1. ANODE 2. ANODE 3. ANODE			

DOCUMENT NUMBER:	98ASB42226B	Electronic versions are uncontrolled except when accessed directly from Printed versions are uncontrolled except when stamped "CONTROLLED	
DESCRIPTION:	SOT-23 (TO-236) 2.90x1.3	SOT-23 (TO-236) 2.90x1.30x1.00 1.90P	

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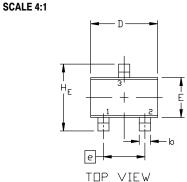
SC-70 (SOT-323) CASE 419 ISSUE R

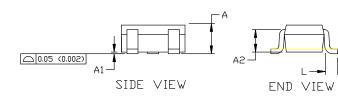
DATE 11 OCT 2022

NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: INCH

	M:	ILLIMETE	RS		INCHES	
DIM	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.
Α	0.80	0.90	1.00	0.032	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A2		0.70 REF	-		0.028 BS	C
b	0.30	0.35	0.40	0.012	0.014	0.016
С	0.10	0.18	0.25	0.004	0.007	0.010
D	1.80	2.00	2.20	0.071	0.080	0.087
E	1.15	1.24	1.35	0.045	0.049	0.053
е	1.20	1.30	1.40	0.047	0.051	0.055
e1	0.65 BSC				0.026 BS	C
L	0.20	0.38	0.56	0.008	0.015	0.022
HE	2.00	2.10	2.40	0.079	0.083	0.095





GENERIC MARKING DIAGRAM

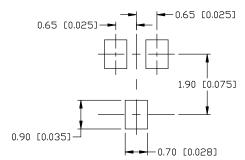


XX = Specific Device Code

M = Date 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.



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

SOLDERING FOOTPRINT

STYLE 1: CANCELLED	STYLE 2: PIN 1. ANODE 2. N.C. 3. CATHODE	STYLE 3: PIN 1. BASE 2. EMITTER 3. COLLECTOR	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. CATHODE	
STYLE 6:	STYLE 7:	STYLE 8:	STYLE 9:	STYLE 10:	STYLE 11:
PIN 1. EMITTER	PIN 1. BASE	PIN 1. GATE	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. CATHODE
2. BASE	2. EMITTER	2. SOURCE	2. CATHODE	2. ANODE	CATHODE
COLLECTOR	COLLECTOR	3. DRAIN	CATHODE-ANODE	3. ANODE-CATHODE	CATHODE

DOCUMENT NUMBER:	98ASB42819B Electronic versions are uncontrolled except when accessed directly from the Document Report Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	SC-70 (SOT-323)		PAGE 1 OF 1

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SC75-3 1.60x0.80x0.80, 1.00P **CASE 463 ISSUE H**

DATE 01 FEB 2024

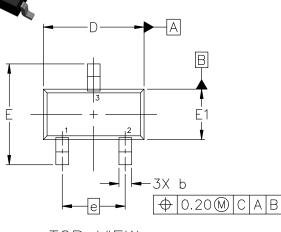
NOTES:

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

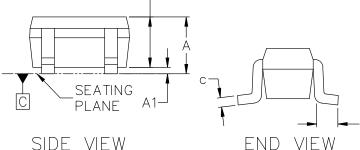
DIM	MILLIMETERS			
DIIVI	MIN.	NOM.	MAX.	
А	0.70	0.80	0.90	
A1	0.00	0.05	0.10	
A2	0.80 REF.			
b	0.15	0.20	0.30	
С	0.10	0.15	0.25	
D	1.55	1.60	1.65	
E	1.50	1.60	1.70	
E1	0.70	0.80	0.90	
е	1.00 BSC			
L	0.10	0.15	0.20	

0.356

0.787



VIEW



A2

SIDE VIEW

GENERIC MARKING DIAGRAM*



XX= Specific Device Code

Μ = Date 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.

STYLE 1: PIN 1. BASE 2. EMITTER

PIN 1. CATHODE 2. CATHODE

3. ANODE

STYLE 4:

STYLE 2: PIN 1. ANODE 2. N/C 3. COLLECTOR 3. CATHODE

STYLE 5:

PIN 1. GATE 2. SOURCE

3. DRAIN

STYLE 3: PIN 1. ANODE 2. ANODE

3. CATHODE

1.000 RECOMMENDED MOUNTING FOOTPRINT*

1.803

0.508

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

DOCUMENT NUMBER:	98ASB15184C Electronic versions are uncontrolled except when accessed directly from the Document Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	SC75-3 1.60x0.80x0.80, 1.00P		PAGE 1 OF 1

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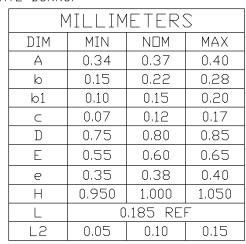


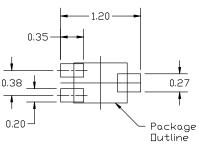
SOT-1123 0.80x0.60x0.37, 0.35P CASE 524AA ISSUE D

DATE 18 JAN 2024

NOTES:

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



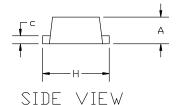


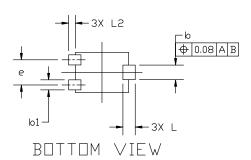
RECOMMENDED MOUNTING FOOTPRINT

*For additional information on our Pb-Free strategy and soldering details, please download th e □N Semiconductor Soldering and Mounting Techniques Reference manual, S□L□ERRM/□.

- I	B I
	E U

THP VIFW





GENERIC MARKING DIAGRAM*



X = Specific Device Code

M = Date 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.

YLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:
PIN 1. BASE	PIN 1. ANODE	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. GATE
EMITTER	2. N/C	2. ANODE	2. CATHODE	SOURCE
COLLECTOR	CATHODE	CATHODE	3. ANODE	3. DRAIN

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DESCRIPTION:	SOT-1123 0.80x0.60x0.37,	SOT-1123 0.80x0.60x0.37, 0.35P		

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MILLIMETERS

 $N\square M$.

0.50



SOT-723 1.20x0.80x0.50, 0.40P CASE 631AA ISSUE E

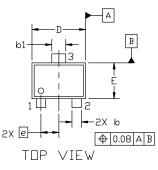
DATE 24 JAN 2024

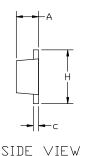
MAX.

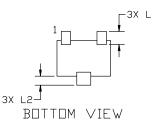
0.55

NOTES:

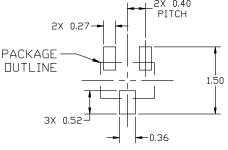
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018. CONTROLLING DIMENSION: MILLIMETERS.
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.







b	0.15	0.21	0.27	
b1	0.25	0.31	0.37	
С	0.07	0.12	0.17	
D	1.15	1.20	1.25	
Е	0.75	0.80	0.85	
е	0.40 BSC			
Н	1.15 1.20 1.25		1.25	
L	0.29 REF			
L2	0.15 0.20		0.25	
2X 0.40 PITCH				



DIM

Α

MIN.

0.45

RECOMMENDED MOUNTING FUUTPRINT

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

GENERIC MARKING DIAGRAM*



XX = Specific Device Code = Date 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.

STYLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:
PIN 1. BASE	PIN 1. ANODE	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. GATE
EMITTER	2. N/C	2. ANODE	2. CATHODE	SOURCE
COLLECTOR	CATHODE	CATHODE	ANODE	DRAIN

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DESCRIPTION:	SOT-723 1.20x0.80x0.50, 0.40P		PAGE 1 OF 1

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