

Digital Transistors (BRT) R1 = 2.2 k Ω , R2 = 47 k Ω

NPN Transistors with Monolithic Bias Resistor Network

MUN2235, MMUN2235L, MUN5235, DTC123JE, DTC123JM3, NSBC123JF3

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

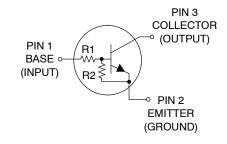
- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

MAXIMUM RATINGS $(T_A = 25^{\circ}C)$

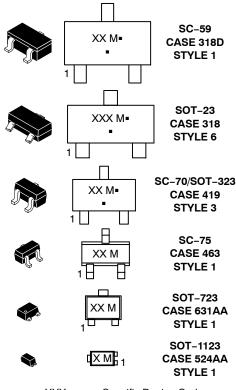
Rating	Symbol	Max	Unit
Collector-Base Voltage	V_{CBO}	50	Vdc
Collector-Emitter Voltage	V_{CEO}	50	Vdc
Collector Current - Continuous	I _C	100	mAdc
Input Forward Voltage	V _{IN(fwd)}	12	Vdc
Input Reverse Voltage	V _{IN(rev)}	6	Vdc

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



MARKING DIAGRAMS



XXX = 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.

Table 1. ORDERING INFORMATION

Device	Part Marking	Package	Shipping [†]
MUN2235T1G	6M	SC-59 (Pb-Free)	3000 / Tape & Reel
MMUN2235LT1G, NSVMMUN2235LT1G*	AA2	SOT-23 (Pb-Free)	3000 / Tape & Reel
MUN5235T1G, SMUN5235T1G*	8M	SC-70/SOT-323 (Pb-Free)	3000 / Tape & Reel
DTC123JET1G, NSVDTC123JET1G*	8M	SC-75 (Pb-Free)	3000 / Tape & Reel
DTC123JM3T5G, NSVDTC123JM3T5G*	8M	SOT-723 (Pb-Free)	8000 / Tape & Reel

DISCONTINUED (Note 1)

NSBC123JF3T5G	V	SOT-1123 (Pb-Free)	8000 / Tape & Reel
		(i b-i iee)	

[†]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.

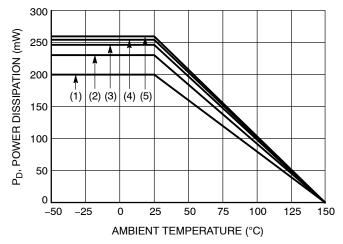


Figure 1. Derating Curve

- (1) SC-75 and SC-70/SOT323; 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

^{*}S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

Table 2. THERMAL CHARACTERISTICS

	Characteristic	Symbol	Max	Unit
THERMAL CHARACTERI	STICS (SC-59) (MUN2235)			
Total Device Dissipation		P _D		
$T_A = 25^{\circ}C$	(Note 2)	_	230	mW
D	(Note 3)		338	\\\\\
Derate above 25°C	(Note 2) (Note 3)		1.8 2.7	mW/°C
Thermal Resistance.	(Note 2)	$R_{ hetaJA}$	540	°C/W
Junction to Ambient	(Note 3)	· 10JA	370	5,
Thermal Resistance,	(Note 2)	$R_{ hetaJL}$	264	°C/W
Junction to Lead	(Note 3)		287	
Junction and Storage Temp	Junction and Storage Temperature Range		-55 to +150	°C
THERMAL CHARACTERI	STICS (SOT-23) (MMUN2235L)			
Total Device Dissipation		P _D		
$T_A = 25^{\circ}C$	(Note 2)		246	mW
Derate above 25°C	(Note 3) (Note 2)		400 2.0	mW/°C
Derate above 25 G	(Note 2) (Note 3)		3.2	IIIVV/ C
Thermal Resistance,	(Note 1)	$R_{ hetaJA}$	508	°C/W
Junction to Ambient	(Note 3)	TWO	311	
Thermal Resistance,	(Note 2)	$R_{ hetaJL}$	174	°C/W
Junction to Lead	(Note 3)		208	
Junction and Storage Tem	perature Range	T_J,T_stg	–55 to +150	°C
THERMAL CHARACTERI	STICS (SC-70/SOT-323) (MUN5235)			
Total Device Dissipation	(Note 0)	P _D	000	>4/
$T_A = 25^{\circ}C$	(Note 2) (Note 3)		202 310	mW
Derate above 25°C	(Note 2)		1.6	mW/°C
20.000 00000 20 0	(Note 3)		2.5	, 0
Thermal Resistance,	(Note 2)	$R_{ hetaJA}$	618	°C/W
Junction to Ambient	(Note 3)		403	
Thermal Resistance,	(Note 2)	$R_{ hetaJL}$	280	°C/W
Junction to Lead	(Note 3)		332	
Junction and Storage Temp	perature Range	T _J , T _{stg}	-55 to +150	°C
THERMAL CHARACTERI	STICS (SC-75) (DTC123JE)			
Total Device Dissipation	(Note 2)	P_{D}	200	\A/
$T_A = 25^{\circ}C$	(Note 2) (Note 3)		200 300	mW
Derate above 25°C	(Note 2)		1.6	mW/°C
Bolato abovo 20 C	(Note 3)		2.4	, 0
Thermal Resistance,	(Note 2)	$R_{ hetaJA}$	600	°C/W
Junction to Ambient	(Note 3)		400	
Junction and Storage Temp	perature Range	T _J , T _{stg}	-55 to +150	°C
THERMAL CHARACTERI	STICS (SOT-723) (DTC123JM3)			
Total Device Dissipation	(Note 2)	P_{D}	060	\A/
$T_A = 25^{\circ}C$	(Note 2) (Note 3)		260 600	mW
Derate above 25°C	(Note 3)		2.0	mW/°C
Donald above 20 O	(Note 3)		4.8	11100/ 0
			+	
Thermal Resistance	(Note 2)	Roia	480	°C/W
Thermal Resistance, Junction to Ambient	(Note 2) (Note 3)	$R_{ hetaJA}$	480 205	°C/W

Table 2. THERMAL CHARACTERISTICS

	Characteristic	Symbol	Max	Unit
THERMAL CHARACTERI	STICS (SOT-1123) (NSBC123JF3)			
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above 25°C	(Note 4) (Note 5) (Note 4) (Note 5)	P _D	254 297 2.0 2.4	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 4) (Note 5)	$R_{ hetaJA}$	493 421	°C/W
Thermal Resistance, Junction to Lead	(Note 4)	$R_{ hetaJL}$	193	°C/W
Junction and Storage Tem	perature 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 $(V_{CE} = 50 \text{ V}, I_B = 0)$	I _{CEO}	-	_	500	nAdc
Emitter–Base Cutoff Current $(V_{EB} = 6.0 \text{ V}, I_C = 0)$	I _{EBO}	-	_	0.2	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 = 1.0 mA)	V _{CE(sat)}	-	_	0.25	Vdc
Input Voltage (off) (V _{CE} = 5.0 V, I _C = 100 μ A)	V _{i(off)}	-	0.6	0.5	Vdc
Input Voltage (on) ($V_{CE} = 0.3 \text{ V}, I_{C} = 5.0 \text{ mA}$)	V _{i(on)}	1.1	0.8	_	Vdc
Output Voltage (on) $(V_{CC} = 5.0 \text{ V}, V_B = 2.5 \text{ V}, R_L = 1.0 \text{ k}\Omega)$	V _{OL}	-	_	0.2	Vdc
Output Voltage (off) $(V_{CC}=5.0 \text{ V}, \text{ V}_{\text{B}}=0.5 \text{ V}, \text{ R}_{\text{L}}=1.0 \text{ k}\Omega)$	V _{OH}	4.9	-	-	Vdc
Input Resistor	R1	1.5	2.2	2.9	kΩ
Resistor Ratio	R ₁ /R ₂	0.038	0.047	0.056	

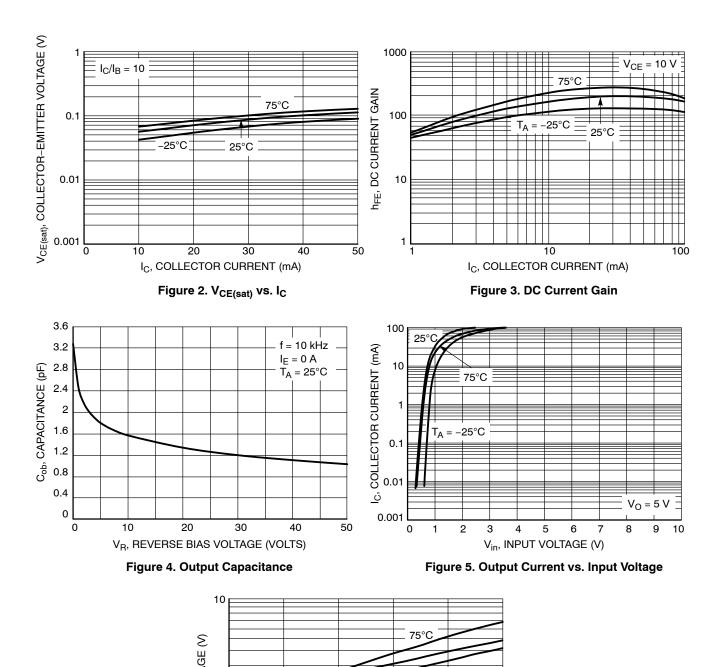
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

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

^{3.} FR-4 @ 1.0 x 1.0 Inch Pad.

^{4.} FR-4 @ 100 mm², 1 oz. copper traces, still air.
5. FR-4 @ 500 mm², 1 oz. copper traces, still air.

TYPICAL CHARACTERISTICS MUN2235, MMUN2235L, MUN5235, DTC123JE, DTC123JM3



 I_{C} , COLLECTOR CURRENT (mA) Figure 6. Input Voltage vs. Output Current

50

TYPICAL CHARACTERISTICS NSBC123JF3

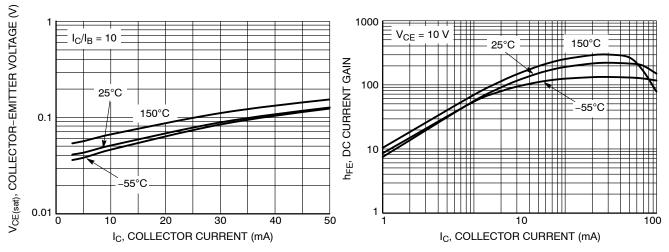


Figure 7. $V_{\text{CE(sat)}}$ vs. I_{C}

Figure 8. DC Current Gain

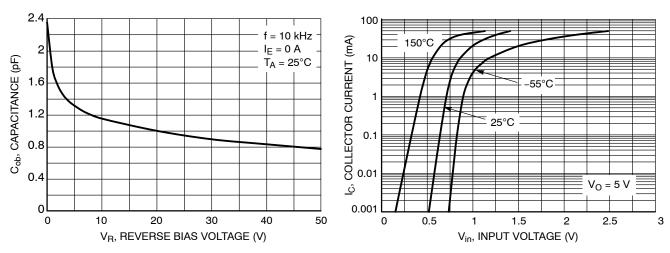


Figure 9. Output Capacitance

Figure 10. Output Current vs. Input Voltage

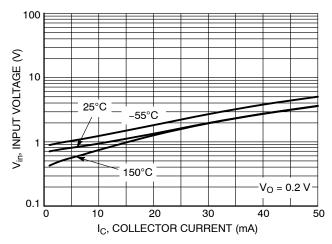


Figure 11. Input Voltage vs. Output Current

PACKAGE DIMENSIONS



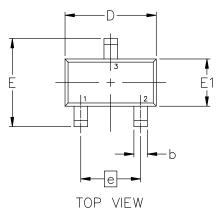
SC-59-3 2.90x1.50x1.15, 1.90P CASE 318D **ISSUE J**

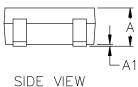
DATE 15 FEB 2024

NOTES:

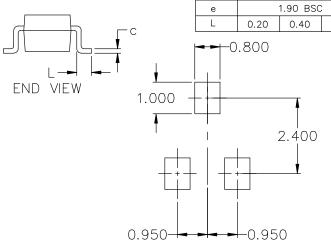
- DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- ALL DIMENSION ARE IN MILLIMETERS.

	MILLIMETERS				
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	0.40	0.60		









GENERIC MARKING DIAGRAM*



XXX = Specific Device Code

= Date Code M

= 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.

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.

 BASE EMITTER COLLECTOR	2.	ANODE N.C. CATHODE	2.	ANODE ANODE CATHODE

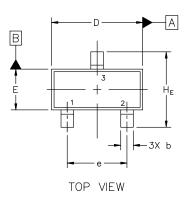
STYLE 4: PIN 1. CATHODE STYLE 5: PIN 1. CATHODE STYLE 6: PIN 1. ANODE 2 CATHODE 2. N.C. 2. CATHODE 3. ANODE 3. ANODE/CATHODE

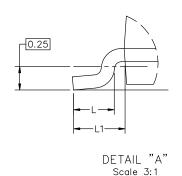


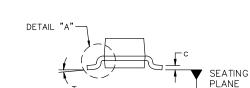


SOT-23 (TO-236) 2.90x1.30x1.00 1.90P **CASE 318 ISSUE AU**

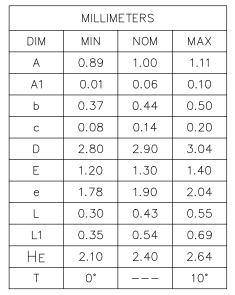
DATE 14 AUG 2024







END VIEW



NOTES:

- 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.



SIDE VIEW

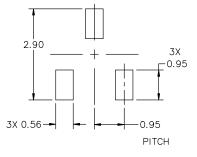


XXX = Specific Device Code

= 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.



C

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

DOCUMENT NUMBER:	98ASB42226B	the Document Repository. COPY" in red.	
DESCRIPTION:	SOT-23 (TO-236) 2.90x1.3	0x1.00 1.90P	PAGE 1 OF 2

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 7: PIN 1. EMITTER 2. BASE 3. COLLECTOR	STYLE 8: PIN 1. ANODE 2. NO CONNECTION 3. CATHODE	1	
STYLE 9:	STYLE 10:	STYLE 11:	STYLE 12: PIN 1. CATHODE 2. CATHODE 3. ANODE	STYLE 13:	STYLE 14:
PIN 1. ANODE	PIN 1. DRAIN	PIN 1. ANODE		PIN 1. SOURCE	PIN 1. CATHODE
2. ANODE	2. SOURCE	2. CATHODE		2. DRAIN	2. GATE
3. CATHODE	3. GATE	3. CATHODE-ANODE		3. GATE	3. ANODE
STYLE 15:	STYLE 16:	STYLE 17:	STYLE 18:	STYLE 19:	STYLE 20:
PIN 1. GATE	PIN 1. ANODE	PIN 1. NO CONNECTION	PIN 1. NO CONNECTION	N PIN 1. CATHODE	PIN 1. CATHODE
2. CATHODE	2. CATHODE	2. ANODE	2. CATHODE	2. ANODE	2. ANODE
3. ANODE	3. CATHODE	3. CATHODE	3. ANODE	3. CATHODE-ANODE	3. GATE
STYLE 21:	STYLE 22:	STYLE 23:	STYLE 24:	STYLE 25:	STYLE 26:
PIN 1. GATE	PIN 1. RETURN	PIN 1. ANODE	PIN 1. GATE	PIN 1. ANODE	PIN 1. CATHODE
2. SOURCE	2. OUTPUT	2. ANODE	2. DRAIN	2. CATHODE	2. ANODE
3. DRAIN	3. INPUT	3. CATHODE	3. SOURCE	3. GATE	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 the Document Repositor, Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.			
DESCRIPTION:	SOT-23 (TO-236) 2.90x1.30x1.00 1.90P		PAGE 2 OF 2		







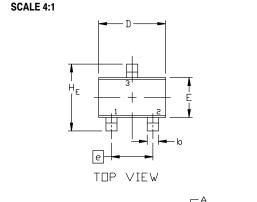
SC-70 (SOT-323) CASE 419 ISSUE R

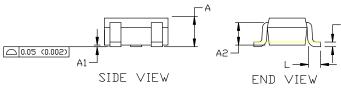
DATE 11 OCT 2022

NOTES:

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

	M:	MILLIMETERS			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

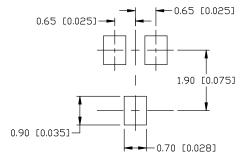


XX = Specific Device Code

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 ID 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 Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	SC-70 (SOT-323)		PAGE 1 OF 1	



SC75-3 1.60x0.80x0.80, 1.00P

CASE 463 ISSUE H

DATE 01 FEB 2024

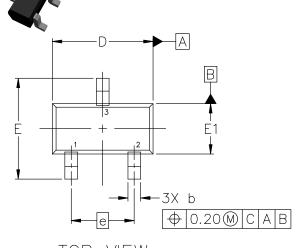


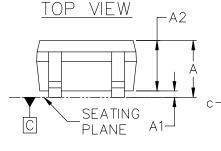
- DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- ALL DIMENSION ARE IN MILLIMETERS.

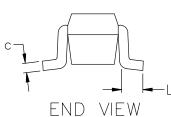
DIM	MILLIMETERS			
DIIVI	MIN.	NOM.	MAX.	
А	0.70	0.80	0.90	
A1	0.00	0.05	0.10	
A2	0.80 REF.			
b	0.15	0.20	0.30	
С	0.10	0.15	0.25	
D	1.55	1.60	1.65	
E	1.50	1.60	1.70	
E1	0.70	0.80	0.90	
е	1.00 BSC			
L	0.10	0.15	0.20	

-0.356

0.787







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	

3 COLLECTOR

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

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.

1.000

RECOMMENDED MOUNTING FOOTPRINT*

STYLE 4:
PIN 1. CATHODE
CATHODE
ANODE

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

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



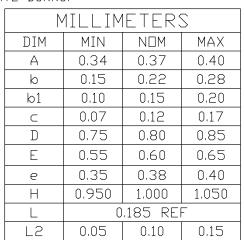


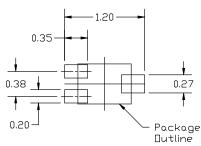
SOT-1123 0.80x0.60x0.37, 0.35P CASE 524AA ISSUE D

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.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

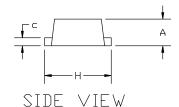




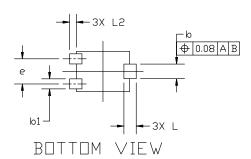
RECOMMENDED MOUNTING FOOTPRINT

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

- :	D	-A B
		E



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.

STYLE 1:
PIN 1. BASE
EMITTER
3 COLLECTOR

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

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

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

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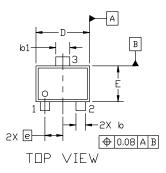
SOT-723 1.20x0.80x0.50, 0.40P CASE 631AA ISSUE E

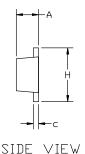
DATE 24 JAN 2024

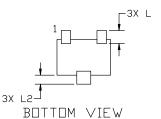
MILLIMETERS

NOTES:

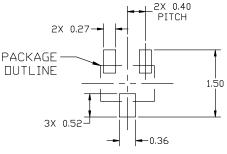
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. CONTROLLING DIMENSION: MILLIMETERS.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH, MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.







DIM MIN. NDM. MAX. 0.45 0.50 0.55 Α 0.15 0.21 0.27 b b1 0.25 0.31 0.37 0.07 0.12 0.17 \subset D 1.25 1.15 1.20 Ε 0.75 0.80 0.85 0.40 BSC е Н 1.20 1.15 1.25 0.29 REF L L2 0.15 0.20 0.25



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.

GENERIC MARKING DIAGRAM*



XX = 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.

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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