

# **MUN2211T3G Datasheet**

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MUN2211T3G-DG
onsemi
MUN2211T3G
TRANS PREBIAS NPN 50V 0.1A SC59
Pre-Biased Bipolar Transistor (BJT) NPN - Pre-Biase d 50 V 100 mA 230 mW Surface Mount SC-59

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MUN2211T3G	onsemi
Series:	Product Status:
	Active
Transistor Type:	Current - Collector (Ic) (Max):
NPN - Pre-Biased	100 mA
Voltage - Collector Emitter Breakdown (Max):	Resistor - Base (R1):
50 V	10 kOhms
Resistor - Emitter Base (R2):	DC Current Gain (hFE) (Min) @ lc, Vce:
10 kOhms	35 @ 5mA, 10V
Vce Saturation (Max) @ lb, lc:	Current - Collector Cutoff (Max):
250mV @ 300µA, 10mA	500nA
Power - Max:	Mounting Type:
230 mW	Surface Mount
Package / Case:	Supplier Device Package:
TO-236-3, SC-59, SOT-23-3	SC-59
Base Product Number:	
MUN2211	

# **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8541.21.0095	

# onsemi

# **Digital Transistors (BRT) R1 = 10 k** $\Omega$ , **R2 = 10 k** $\Omega$

NPN Transistors with Monolithic Bias Resistor Network

# MUN2211, MMUN2211L, MUN5211, DTC114EE, DTC114EM3, NSBC114EF3

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

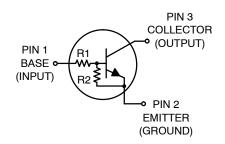
- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q101 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

#### **MAXIMUM RATINGS** (T<sub>A</sub> = $25^{\circ}$ C)

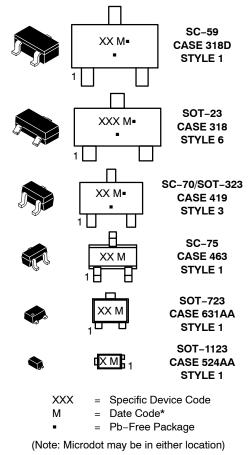
Rating	Symbol	Max	Unit
Collector-Base Voltage	V <sub>CBO</sub>	50	Vdc
Collector-Emitter Voltage	V <sub>CEO</sub>	50	Vdc
Collector Current – Continuous	۱ <sub>C</sub>	100	mAdc
Input Forward Voltage	V <sub>IN(fwd)</sub>	40	Vdc
Input Reverse Voltage	V <sub>IN(rev)</sub>	10	Vdc

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.





#### MARKING DIAGRAMS



\*Date Code orientation may vary depending upon manufacturing location.

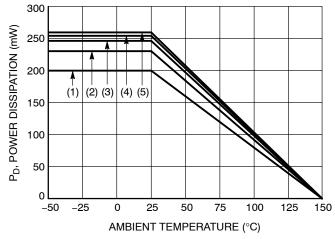
#### **ORDERING INFORMATION**

See detailed ordering, marking, and shipping information in the package dimensions section on page 2 of this data sheet.

#### **Table 1. ORDERING INFORMATION**

Device	Part Marking	Package	Shipping <sup>†</sup>
MUN2211T1G, SMUN2211T1G	8A	SC–59 (Pb–Free)	3000 / Tape & Reel
MUN2211T3G, SMUN2211T3G	8A	SC–59 (Pb–Free)	10000 / Tape & Reel
MMUN2211LT1G, SMMUN2211LT1G	A8A	SOT-23 (Pb-Free)	3000 / Tape & Reel
MMUN2211LT3G, SMMUN2211LT3G	A8A	SOT-23 (Pb-Free)	10000 / Tape & Reel
MUN5211T1G, SMUN5211T1G	8A	SC-70/SOT-323 (Pb-Free)	3000 / Tape & Reel
SMUN5211T3G	8A	SC-70/SOT-323 (Pb-Free)	10000 / Tape & Reel
DTC114EET1G, SDTC114EET1G	8A	SC-75 (Pb-Free)	3000 / Tape & Reel
DTC114EM3T5G	8A	SOT-723 (Pb-Free)	8000 / Tape & Reel
NSBC114EF3T5G	A	SOT-1123 (Pb-Free)	8000 / 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.









#### **Table 2. THERMAL CHARACTERISTICS**

	Characteristic	Symbol	Max	Unit
THERMAL CHARACTERISTIC	CS (SC-59) (MUN2211)			
$\begin{array}{l} \mbox{Total Device Dissipation} \\ T_A = 25^\circ C \qquad (Note 1) \\ (Note 2) \\ \mbox{Derate above } 25^\circ C \\ (Note 2) \end{array}$	(Note 1)	PD	230 338 1.8 2.7	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ ext{ heta}JA}$	540 370	°C/W
Thermal Resistance, Junction to Lead (Note 2)	(Note 1)	$R_{ ext{ heta}JL}$	264 287	°C/W
Junction and Storage Tempera	ature Range	T <sub>J</sub> , T <sub>stg</sub>	–55 to +150	°C
THERMAL CHARACTERISTIC	CS (SOT-23) (MMUN2211L)			
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 1) (Note 2) Derate above 25^{C} (Note 2)	(Note 1)	PD	246 400 2.0 3.2	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ extsf{ heta}JA}$	508 311	°C/W
Thermal Resistance, Junction to Lead (Note 2)	(Note 1)	R <sub>θJL</sub>	174 208	°C/W
Junction and Storage Tempera	ature Range	T <sub>J</sub> , T <sub>stg</sub>	–55 to +150	°C
THERMAL CHARACTERISTIC	CS (SC-70/SOT-323) (MUN5211)			
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 1) (Note 2) Derate above 25^{C} (Note 2)	(Note 1)	PD	202 310 1.6 2.5	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ hetaJA}$	618 403	°C/W
Thermal Resistance, Junction to Lead (Note 2)	(Note 1)	R <sub>θJL</sub>	280 332	°C/W
Junction and Storage Tempera	ature Range	T <sub>J</sub> , T <sub>stg</sub>	–55 to +150	°C
THERMAL CHARACTERISTIC	CS (SC-75) (DTC114EE)	·		
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 1) (Note 2) Derate above 25^{C} (Note 2)	(Note 1)	P <sub>D</sub>	200 300 1.6 2.4	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ hetaJA}$	600 400	°C/W
Junction and Storage Tempera	ature Range	T <sub>J</sub> , T <sub>stg</sub>	–55 to +150	°C
THERMAL CHARACTERISTIC	CS (SOT-723) (DTC114EM3)			
$\begin{array}{l} \mbox{Total Device Dissipation} \\ T_A = 25^\circ C \qquad (Note 1) \\ (Note 2) \\ \mbox{Derate above } 25^\circ C \\ (Note 2) \end{array}$	(Note 1)	PD	260 600 2.0 4.8	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	R <sub>θJA</sub>	480 205	°C/W
Junction and Storage Tempera	atura Danga	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150	°C

2. FR-4 @ 1.0 x 1.0 Inch Pad.

FR-4 @ 100 mm<sup>2</sup>, 1 oz. copper traces, still air.
FR-4 @ 500 mm<sup>2</sup>, 1 oz. copper traces, still air.



#### **Table 2. THERMAL CHARACTERISTICS**

Characteristic	Symbol	Max	Unit
THERMAL CHARACTERISTICS (SOT-1123) (NSBC114EF3)			
$ \begin{array}{l} \mbox{Total Device Dissipation} \\ T_A = 25^\circ C & (Note 3) \\ & (Note 4) \\ \mbox{Derate above } 25^\circ C & (Note 3) \\ & (Note 4) \end{array} $	PD	254 297 2.0 2.4	mW mW/°C
Thermal Resistance,(Note 3)Junction to Ambient(Note 4)	$R_{ hetaJA}$	493 421	°C/W
Thermal Resistance, Junction to Lead (Note 3)	R <sub>θJL</sub>	193	°C/W
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	–55 to +150	°C

1. FR-4 @ Minimum Pad.

FR-4 @ 1.0 x 1.0 Inch Pad.
FR-4 @ 100 mm<sup>2</sup>, 1 oz. copper traces, still air.
FR-4 @ 500 mm<sup>2</sup>, 1 oz. copper traces, still air.

#### Table 3. ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = $25^{\circ}$ C, unless otherwise noted)

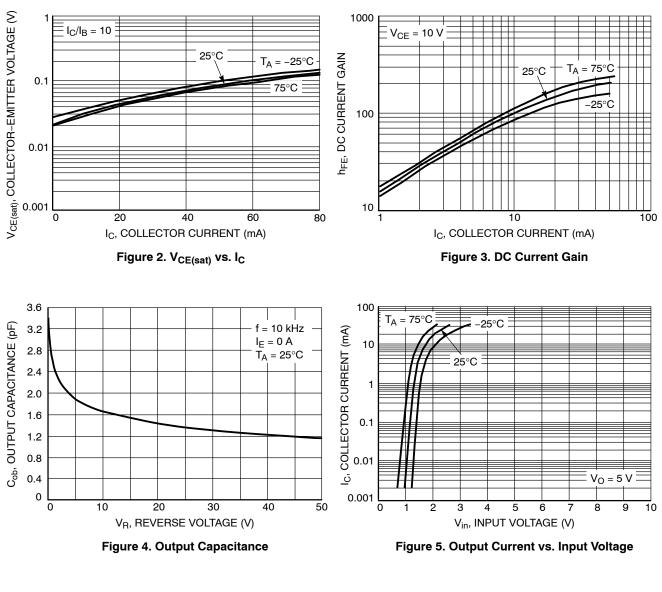
Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS					
Collector-Base Cutoff Current $(V_{CB} = 50 \text{ V}, I_E = 0)$	I <sub>CBO</sub>	_	_	100	nAdc
Collector–Emitter Cutoff Current $(V_{CE} = 50 \text{ V}, I_B = 0)$	I <sub>CEO</sub>	-	-	500	nAdc
Emitter–Base Cutoff Current $(V_{EB} = 6.0 \text{ V}, I_C = 0)$	I <sub>EBO</sub>	-	-	0.5	mAdc
Collector–Base Breakdown Voltage $(I_C = 10 \ \mu A, I_E = 0)$	V <sub>(BR)CBO</sub>	50	-	-	Vdc
Collector–Emitter Breakdown Voltage (Note 5) $(I_{\rm C}$ = 2.0 mA, $I_{\rm B}$ = 0)	V <sub>(BR)CEO</sub>	50	-	-	Vdc
ON CHARACTERISTICS		-	-		
DC Current Gain (Note 5) $(I_C = 5.0 \text{ mA, } V_{CE} = 10 \text{ V})$	h <sub>FE</sub>	35	60	_	
Collector-Emitter Saturation Voltage (Note 5) $(I_{\rm C}$ = 10 mA, $I_{\rm B}$ = 0.3 mA)	V <sub>CE(sat)</sub>	_	-	0.25	Vdc
Input Voltage (off) (V <sub>CE</sub> = 5.0 V, I <sub>C</sub> = 100 μA)	V <sub>i(off)</sub>	-	1.2	0.8	Vdc
Input Voltage (on) (V <sub>CE</sub> = 0.3 V, I <sub>C</sub> = 10 mA)	V <sub>i(on)</sub>	2.5	1.8	_	Vdc
Output Voltage (on) ( $V_{CC}$ = 5.0 V, $V_B$ = 2.5 V, $R_L$ = 1.0 k $\Omega$ )	V <sub>OL</sub>	-	-	0.2	Vdc
Output Voltage (off) $(V_{CC} = 5.0 \text{ V}, \text{ V}_B = 0.5 \text{ V}, \text{ R}_L = 1.0 \text{ k}\Omega)$	V <sub>OH</sub>	4.9	-	-	Vdc
Input Resistor	R1	7.0	10	13	kΩ
Resistor Ratio	R <sub>1</sub> /R <sub>2</sub>	0.8	1.0	1.2	

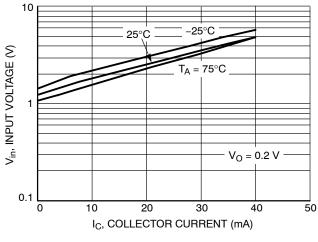
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

5. Pulsed Condition: Pulse Width = 300  $\mu$ sec, Duty Cycle  $\leq$  2%.



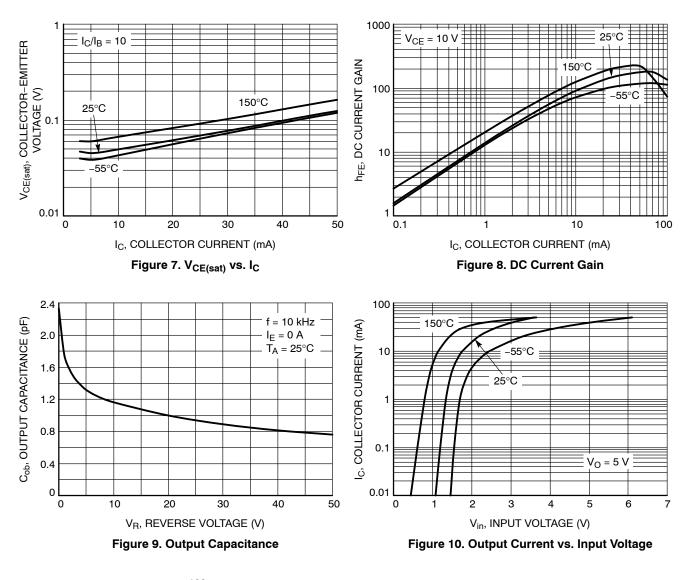
**TYPICAL CHARACTERISTICS** MUN2211, MMUN2211L, MUN5211, DTC114EE, DTC114EM3











**TYPICAL CHARACTERISTICS - NSBC114EF3** 

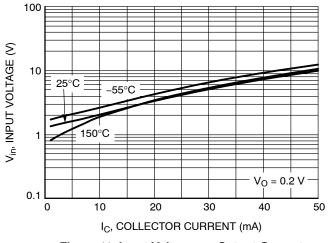


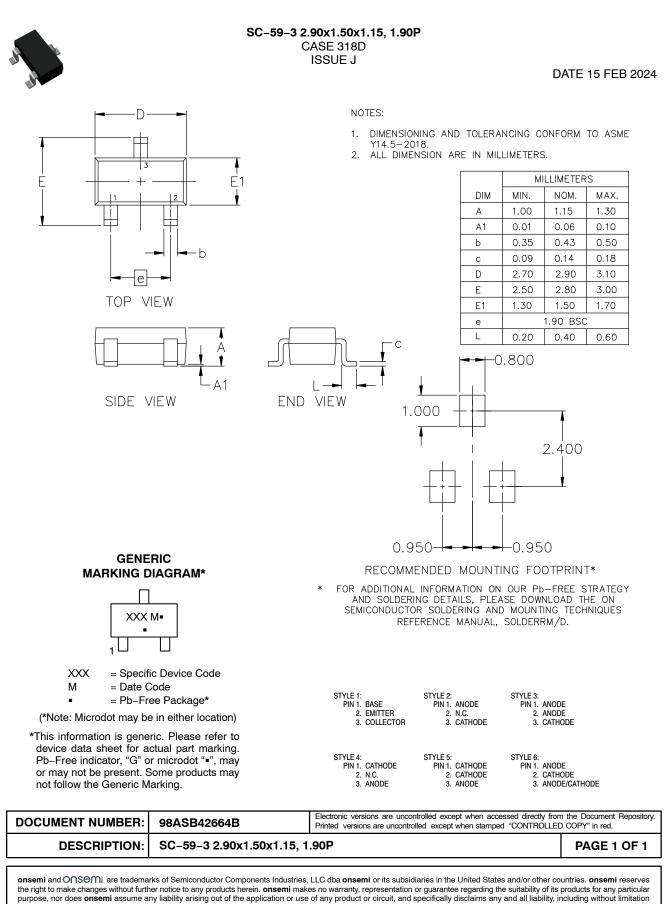
Figure 11. Input Voltage vs. Output Current





MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



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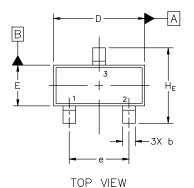
### **MECHANICAL CASE OUTLINE**

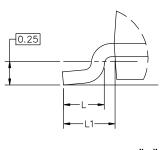
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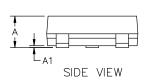
SOT-23 (TO-236) 2.90x1.30x1.00 1.90P **CASE 318 ISSUE AU** 

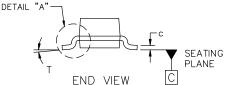
DATE 14 AUG 2024









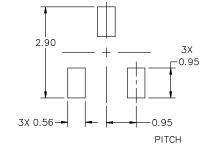




XXX = Specific Device Code Μ = Date Code

= 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.



MILLIMETERS				
DIM	MIN	NOM	МАХ	
А	0.89	1.00	1.11	
A1	0.01	0.06	0.10	
b	0.37	0.44	0.50	
с	0.08	0.14	0.20	
D	2.80	2.90	3.04	
E	1.20	1.30	1.40	
е	1.78	1.90	2.04	
L	0.30	0.43	0.55	
L1	0.35	0.54	0.69	
Ηe	2.10	2.40	2.64	
Т	0°		10°	

NOTES:

DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018. CONTROLLING DIMENSIONS: 1.

2. MILLIMETERS.

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, PPOTPUSIONS OR GATE BURRS. 3.

4. PROTRUSIONS, OR GATE BURRS.

#### 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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#### 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	I	
STYLE 9:	STYLE 10:	STYLE 11:	STYLE 12:	STYLE 13:	STYLE 14:
PIN 1. ANODE	PIN 1. DRAIN	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. SOURCE	PIN 1. CATHODE
2. ANODE	2. SOURCE	2. CATHODE	2. CATHODE	2. DRAIN	2. GATE
3. CATHODE	3. GATE	3. CATHODE-ANODE	3. 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	I 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:	STYLE 28:				

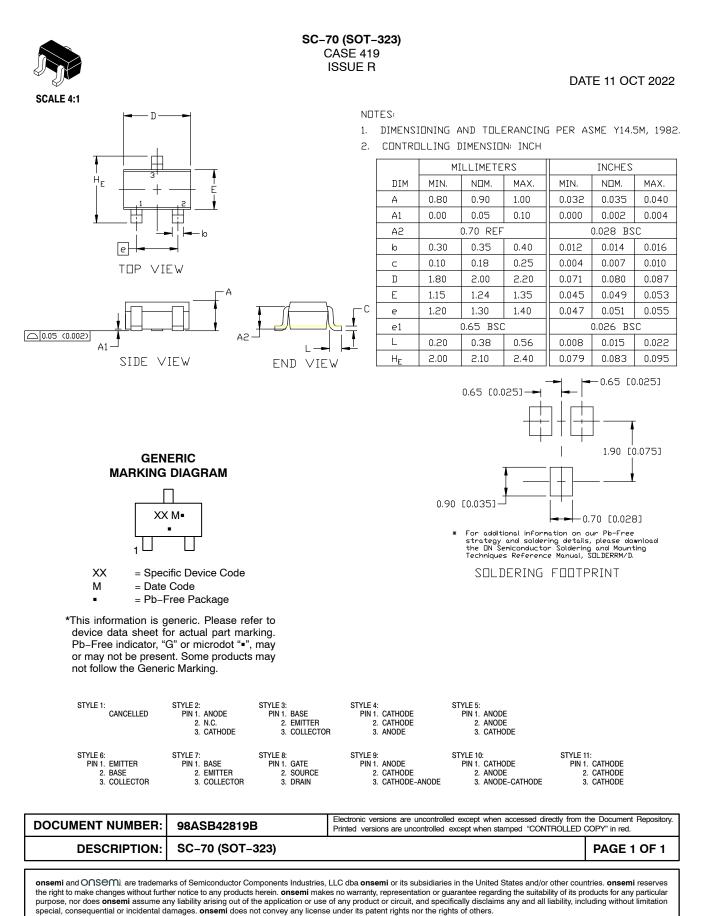
PIN 1. CATHODE PIN 1. ANODE 2. CATHODE 2. ANODE 3. CATHODE 3. ANODE

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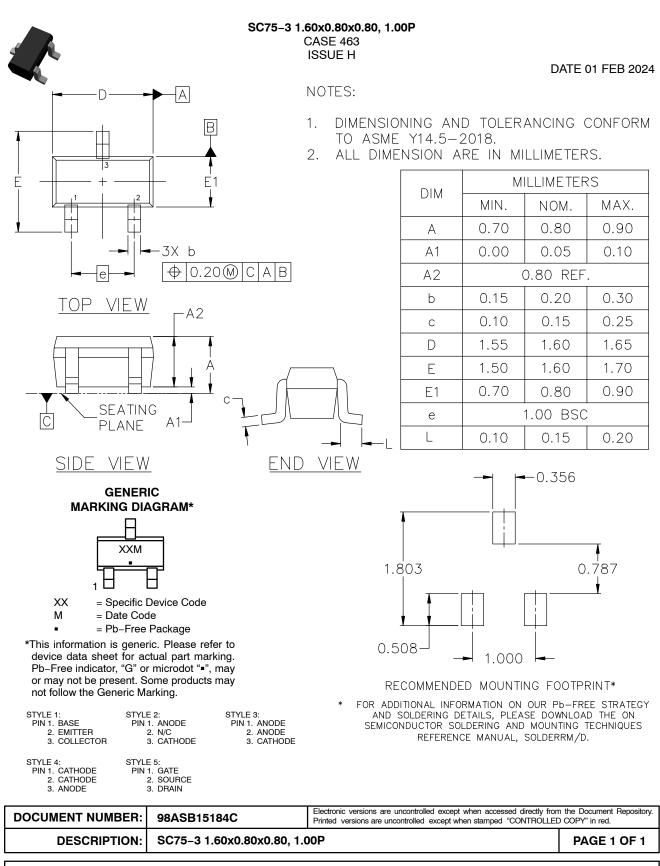
PACKAGE DIMENSIONS





### MECHANICAL CASE OUTLINE

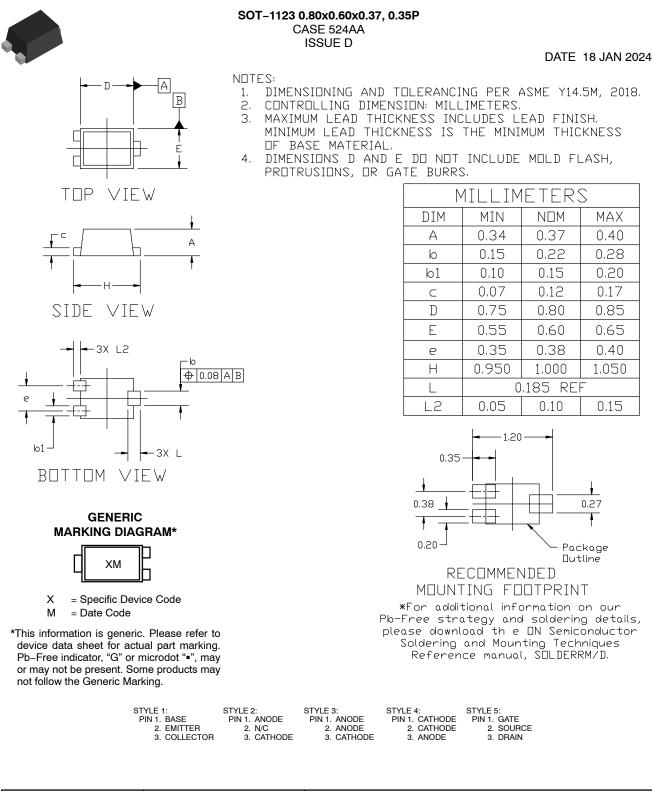
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DESCRIPTION:	SOT-1123 0.80x0.60x0.37, 0.35P		PAGE 1 OF 1

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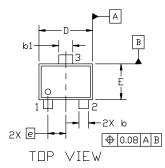


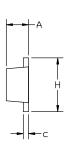
#### SOT-723 1.20x0.80x0.50, 0.40P CASE 631AA ISSUE E

DATE 24 JAN 2024

NDTES:

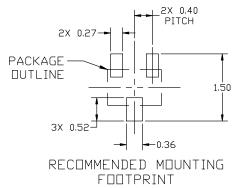
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018. CONTROLLING DIMENSION: MILLIMETERS. 1.
- 2.
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- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, 4. PROTRUSIONS OR GATE BURRS.



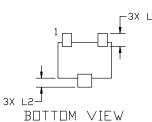


SIDE VIEW

		MILLIMETERS			
	DIM	MIN.	NDM.	MAX.	
1	А	0.45	0.50	0.55	
	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	
	E	0.75	0.80	0.85	
	e	0.40 BSC			
	Н	1.15	1.20	1.25	
	L	0.29 REF			
	L2	0.15	0.20	0.25	



\*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 Μ = 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.

		T-723 1.20x0.80x			except when stamped "CONTROLLED	PAGE 1 OF 1
	DOCUMENT NUMBER: 98AON12989D Electronic versions are uncontrolled except when accessed directly from the Document Reposition of t					
PIN 1. BASE 2. EMITTER 3. COLLECTOR	PIN 1. ANODE 2. N/C 3. CATHO	2. ANODE	PIN 1. CAT 2. CAT 3. ANO	IODE 2. SOURCE		
STYLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:		

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