

MUN2111T3G Datasheet

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MUN2111T3G-DG
onsemi
MUN2111T3G
TRANS PREBIAS PNP 50V 0.1A SC59
Pre-Biased Bipolar Transistor (BJT) PNP - Pre-Biase d 50 V 100 mA 230 mW Surface Mount SC-59

https://www.DiGi-Electronics.com



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MUN2111T3G	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP - 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, Ic:	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:	
MUN2111	

Environmental & Export classification

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

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Digital Transistors (BRT) R1 = 10 k Ω , R2 = 10 k Ω

PNP Transistors with Monolithic Bias Resistor Network

MUN2111, MMUN2111L, MUN5111, DTA114EE, DTA114EM3, NSBA114EF3

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.

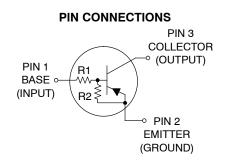
Features

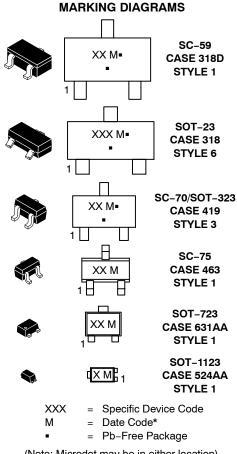
- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

MAXIMUM RATINGS (T_A = 25°C) Rating Symbol Collector-Base Voltage V_{CBO}

C C			
Collector-Base Voltage	V _{CBO}	50	Vdc
Collector-Emitter Voltage	V _{CEO}	50	Vdc
Collector Current – Continuous	Ι _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.





(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 in the package dimensions section 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.

Unit

Max

Table 1. ORDERING INFORMATION

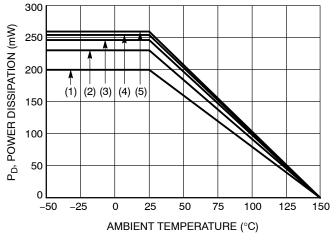
Device	Part Marking	Package	Shipping [†]
MUN2111T1G, SMUN2111T1G	6A	SC–59 (Pb–Free)	3000 / Tape & Reel
SMUN2111T3G	6A	SC–59 (Pb–Free)	10000 / Tape & Reel
MMUN2111LT1G, SMMUN2111LT1G	A6A	SOT-23 (Pb-Free)	3000 / Tape & Reel
MMUN2111LT3G, SMMUN2111LT3G	A6A	SOT-23 (Pb-Free)	10000 / Tape & Reel
MUN5111T1G, SMUN5111T1G	6A	SC-70/SOT-323 (Pb-Free)	3000 / Tape & Reel
DTA114EET1G, NSVDTA114EET1G	6A	SC-75 (Pb-Free)	3000 / Tape & Reel
DTA114EM3T5G, NSVDTA114EM3T5G	6A	SOT-723 (Pb-Free)	8000 / Tape & Reel

DISCONTINUED (Note 1)

	NSBA114EF3T5G	F	SOT-1123 (Pb-Free)	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:** 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 <u>www.onsemi.com</u>.



(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

Figure 1. Derating Curve

Table 2. THERMAL CHARACTERISTICS

	Characteristic	Symbol	Max	Unit
THERMAL CHARACTERISTIC	CS (SC-59) (MUN2111)			
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 2) (Note 3) Derate above 25^{C} (Note 3)	(Note 2)	PD	230 338 1.8 2.7	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 2) (Note 3)	R _{θJA}	540 370	°C/W
Thermal Resistance, Junction to Lead (Note 3)	(Note 2)	R _{θJL}	264 287	°C/W
Junction and Storage Temper	ature Range	T _J , T _{stg}	–55 to +150	°C
THERMAL CHARACTERISTIC	CS (SOT-23) (MMUN2111L)			
$\begin{array}{l} \mbox{Total Device Dissipation} \\ T_A = 25^\circ C & (Note 2) \\ (Note 3) \\ \mbox{Derate above } 25^\circ C \\ (Note 3) \end{array}$	(Note 2)	PD	246 400 2.0 3.2	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 3)	$R_{ heta JA}$	508 311	°C/W
Thermal Resistance, Junction to Lead (Note 3)	(Note 2)	R _{θJL}	174 208	°C/W
Junction and Storage Temper	ature Range	T _J , T _{stg}	–55 to +150	°C
THERMAL CHARACTERISTIC	CS (SC-70/SOT-323) (MUN5111)			
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 2) (Note 3) Derate above 25^{C} (Note 3)	(Note 2)	PD	202 310 1.6 2.5	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 2) (Note 3)	R _{θJA}	618 403	°C/W
Thermal Resistance, Junction to Lead (Note 3)	(Note 2)	R _{θJL}	280 332	°C/W
Junction and Storage Temper	ature Range	T _J , T _{stg}	–55 to +150	°C
THERMAL CHARACTERISTIC	CS (SC-75) (DTA114EE)			
$\begin{array}{l} \mbox{Total Device Dissipation} \\ T_A = 25^\circ C & (Note 2) \\ (Note 3) \\ \mbox{Derate above } 25^\circ C \\ (Note 3) \end{array}$	(Note 2)	PD	200 300 1.6 2.4	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 2) (Note 3)	$R_{ heta JA}$	600 400	°C/W
Junction and Storage Temper	ature Range	T _J , T _{stg}	–55 to +150	°C
THERMAL CHARACTERISTIC	CS (SOT-723) (DTA114EM3)			
$\begin{array}{l} \mbox{Total Device Dissipation} \\ T_A = 25^\circ C & (Note 2) \\ (Note 3) \\ \mbox{Derate above } 25^\circ C \\ (Note 3) \end{array}$	(Note 2)	PD	260 600 2.0 4.8	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 2) (Note 3)	R _{θJA}	480 205	°C/W
Junction and Storage Temper	atura Banaa	TJ, T _{stg}	-55 to +150	°C

3. 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.

Table 2. THERMAL CHARACTERISTICS

Characteristic		Symbol	Max	Unit
THERMAL CHARACTERISTICS (SOT-1123) (NSBA114E	F3)			
$ \begin{array}{l} \mbox{Total Device Dissipation} \\ T_A = 25^\circ C & (Note 4) \\ & (Note 5) \\ \mbox{Derate above } 25^\circ C & (Note 4) \\ & (Note 5) \end{array} $		P _D	254 297 2.0 2.4	mW mW/°C
Thermal Resistance,(Note 4)Junction to Ambient(Note 5)		R_{\thetaJA}	493 421	°C/W
Thermal Resistance, Junction to Lead	(Note 4)	$R_{\theta JL}$	193	°C/W
Junction and Storage Temperature Range		T _J , T _{stg}	–55 to +150	°C

2. FR-4 @ Minimum Pad.

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

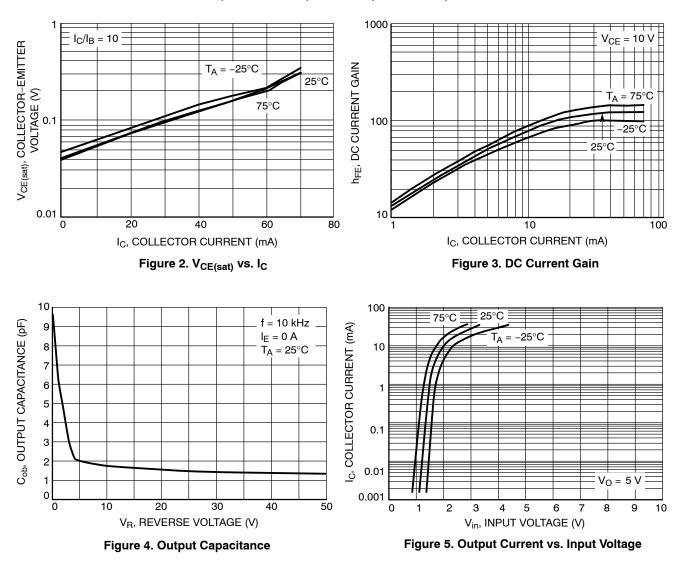
FR-4 @ 100 mm², 1 oz. copper traces, still air.
 FR-4 @ 500 mm², 1 oz. copper traces, still air.

Table 3. ELECTRICAL CHARACTERISTICS (T_A = 25° 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 _{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}	-	_	0.5	mAdc
Collector-Base Breakdown Voltage $(I_C = 10 \ \mu A, I_E = 0)$	V _{(BR)CBO}	50	-	-	Vdc
Collector–Emitter Breakdown Voltage (Note 6) $(I_C = 2.0 \text{ mA}, I_B = 0)$	V _{(BR)CEO}	50	_	-	Vdc
ON CHARACTERISTICS					
DC Current Gain (Note 6) ($I_C = 5.0 \text{ mA}, V_{CE} = 10 \text{ V}$)	h _{FE}	35	60	_	
Collector–Emitter Saturation Voltage (Note 6) $(I_{C} = 10 \text{ mA}, I_{B} = 0.3 \text{ mA})$	V _{CE(sat)}	-	-	0.25	Vdc
Input Voltage (off) (V _{CE} = 5.0 V, I _C = 100 μA)	V _{i(off)}	-	1.2	0.8	Vdc
Input Voltage (on)	V _{i(on)}				Vdc

Collector-Emitter Saturation Voltage (Note 6) ($I_c = 10 \text{ mA}, I_B = 0.3 \text{ mA}$)	V _{CE(sat)}	-	-	0.25	Vdc
Input Voltage (off) (V _{CE} = 5.0 V, I _C = 100 μA)	V _{i(off)}	-	1.2	0.8	Vdc
Input Voltage (on) ($V_{CE} = 0.3 \text{ V}, I_{C} = 10 \text{ mA}$)	V _{i(on)}	2.5	1.8	-	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 kΩ)	V _{OH}	4.9	-	_	Vdc
Input Resistor	R1	7.0	10	13	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.
6. Pulsed Condition: Pulse Width = 300 msec, Duty Cycle ≤ 2%.





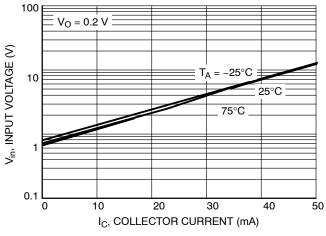
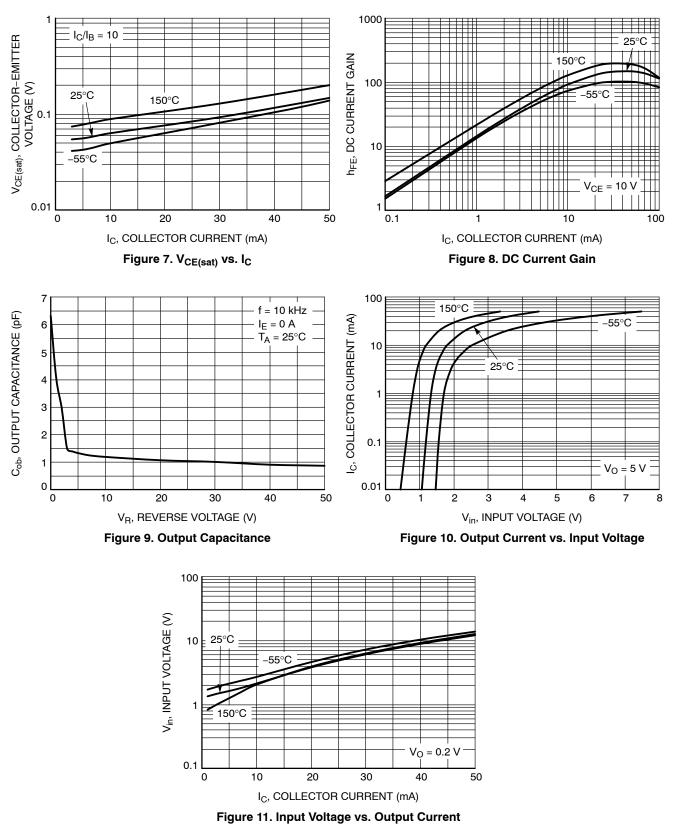


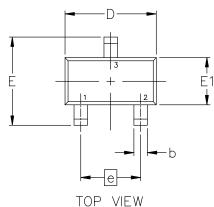
Figure 6. Input Voltage vs. Output Current



TYPICAL CHARACTERISTICS – NSBA114EF3

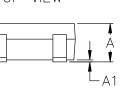
PACKAGE DIMENSIONS

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

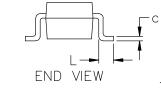


NOTES:

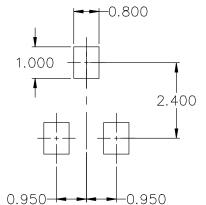
- 1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- 2. ALL DIMENSION ARE IN MILLIMETERS.



SIDE VIEW



	MILLIMETERS			
DIM	MIN.	NOM.	MAX.	
А	1.00	1.15	1.30	
A1	0.01	0.06	0.10	
b	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	



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

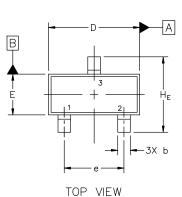


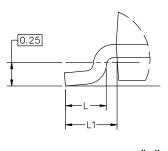
MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

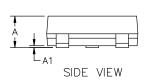
DATE 14 AUG 2024

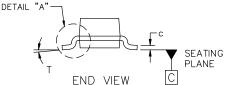


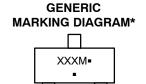








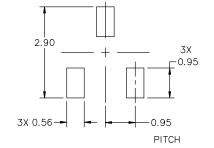




XXX = Specific Device Code М = Date Code

= 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	MAX		
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.

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, 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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DESCRIPTION:	SOT-23 (TO-236) 2.90x1.3	0x1.00 1.90P	PAGE 1 OF 2
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DATE 14 AUG 2024

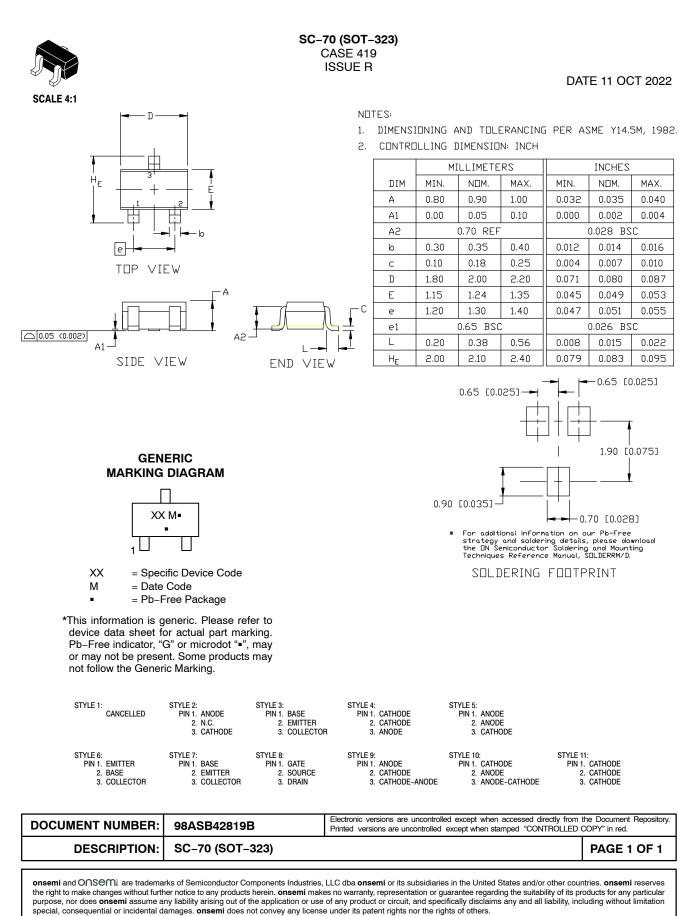
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STYLE 9:	STYLE 10:	STYLE 11:	STYLE 12:	STYLE 13:	STYLE 14:
PIN 1. ANODE	PIN 1. DRAIN	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. SOURCE	PIN 1. CATHODE
2. ANODE	2. SOURCE	2. CATHODE	2. CATHODE	2. DRAIN	2. GATE
3. CATHODE	3. GATE	3. CATHODE-ANODE	3. ANODE	3.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

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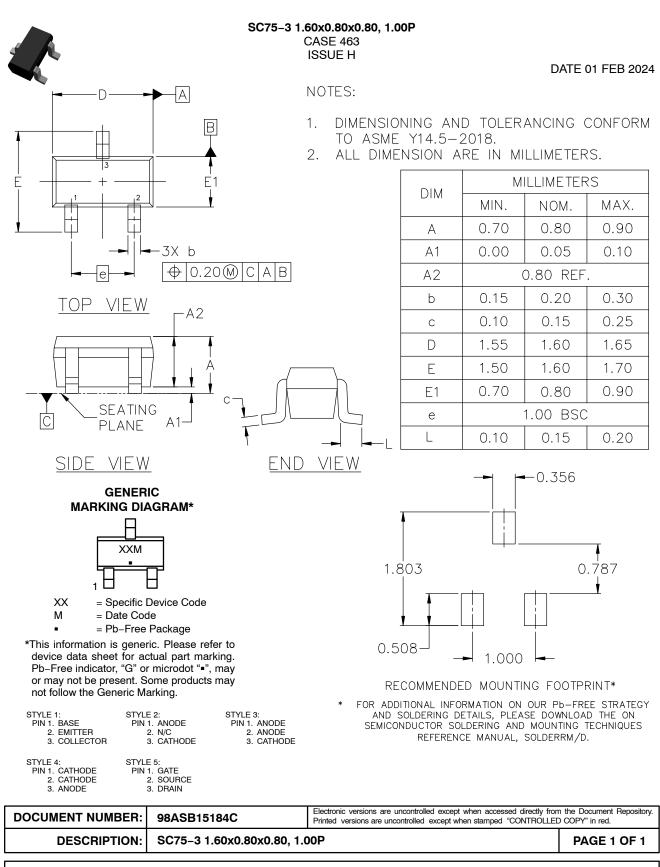
PACKAGE DIMENSIONS





MECHANICAL CASE OUTLINE

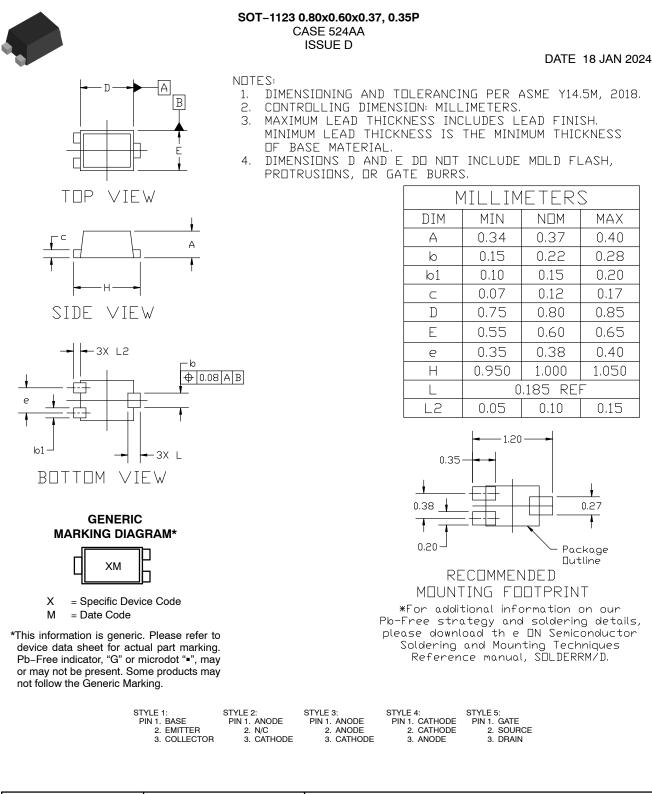
PACKAGE DIMENSIONS



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

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PACKAGE DIMENSIONS

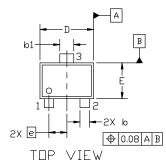


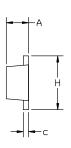
SOT-723 1.20x0.80x0.50, 0.40P CASE 631AA ISSUE E

DATE 24 JAN 2024

NDTES:

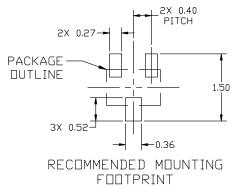
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- 2.
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM З. LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, 4 PROTRUSIONS OR GATE BURRS.



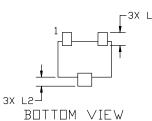


SIDE VIEW

		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		
	C	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
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