MUN5216DW1, NSBC143TDXV6

Dual NPN Bias Resistor Transistors R1 = 4.7 k\Omega, R2 = \infty k\Omega

NPN Transistors with Monolithic Bias Resistor Network

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

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

MAXIMUM RATINGS

(T_A = 25° C, common for Q1 and Q2, unless otherwise noted)

Rating	Symbol	Max	Unit
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)}	30	Vdc
Input Reverse Voltage	V _{IN(rev)}	6	Vdc

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

ORDERING INFORMATION

Device	Package	Shipping [†]
MUN5216DW1T1G, SMUN5216DW1T1G	SOT-363	3,000 / Tape & Reel
NSBC143TDXV6T1G	SOT-563	4,000 / Tape & Reel
NSBC143TDXV6T5G	SOT-563	8,000 / Tape & Reel

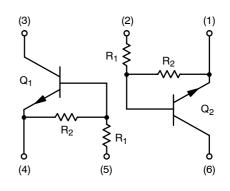
[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.



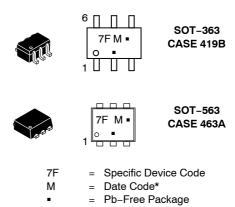
ON Semiconductor®

http://onsemi.com

PIN CONNECTIONS



MARKING DIAGRAMS



(Note: Microdot may be in either location)

*Date Code orientation may vary depending upon manufacturing location.

MUN5216DW1, NSBC143TDXV6

THERMAL CHARACTERISTICS

Characteristic		Symbol	Max	Unit			
MUN5216DW1 (SOT–363) One Junction Heated							
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above 25°C	(Note 1) (Note 2) (Note 1) (Note 2)	P _D	187 256 1.5 2.0	mW mW/°C			
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	R_{\thetaJA}	670 490	°C/W			
MUN5216DW1 (SOT-363) Both Junction Heated (Note 3)							
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above $25^{\circ}C$	(Note 1) (Note 2) (Note 1) (Note 2)	P _D	250 385 2.0 3.0	mW mW/°C			
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	R_{\thetaJA}	493 325	°C/W			
Thermal Resistance, Junction to Lead	(Note 1) (Note 2)	$R_{ extsf{ heta}JL}$	188 208	°C/W			
Junction and Storage Temperature Range		T _J , T _{stg}	–55 to +150	°C			
NSBC143TDXV6 (SOT-563) One Junction Heated							
Total Device Dissipation T _A = 25°C Derate above 25°C	(Note 1) (Note 1)	P _D	357 2.9	mW mW/°C			
Thermal Resistance, Junction to Ambient	(Note 1)	$R_{ hetaJA}$	350	°C/W			
NSBC143TDXV6 (SOT-563) Both Junction Heated (Note 3)			-				
Total Device Dissipation T _A = 25°C Derate above 25°C	(Note 1) (Note 1)	P _D	500 4.0	mW mW/°C			
Thermal Resistance, Junction to Ambient	(Note 1)	R_{\thetaJA}	250	°C/W			
Junction and Storage Temperature 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.

MUN5216DW1, NSBC143TDXV6

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}	_	_	1.9	mAdc
Collector-Base Breakdown Voltage $(I_{C} = 10 \ \mu A, I_{E} = 0)$	V _{(BR)CBO}	50	_	_	Vdc
Collector–Emitter Breakdown Voltage (Note 4) $(I_{C} = 2.0 \text{ mA}, I_{B} = 0)$	V _(BR) CEO	50	_	-	Vdc
ON CHARACTERISTICS					
DC Current Gain (Note 4) (I _C = 5.0 mA, V _{CE} = 10 V)	h _{FE}	160	350	-	
Collector-Emitter Saturation Voltage (Note 4) $(I_{C} = 10 \text{ mA}, I_{B} = 1.0 \text{ mA})$	V _{CE(sat)}	_	_	0.25	Vdc
Input Voltage (off) (V _{CE} = 5.0 V, I _C = 100 μA)	V _{i(off)}	_	0.6	_	Vdc
Input Voltage (on) (V _{CE} = 0.2 V, I _C = 10 mA)	V _{i(on)}	_	0.9	_	Vdc
Output Voltage (on) $(V_{CC} = 5.0 \text{ V}, \text{ V}_{B} = 2.5 \text{ V}, \text{ R}_{L} = 1.0 \text{ k}\Omega)$	V _{OL}	-	_	0.2	Vdc
Output Voltage (off) ($V_{CC} = 5.0 \text{ V}, \text{ V}_{B} = 0.25 \text{ V}, \text{ R}_{L} = 1.0 \text{ k}\Omega$)	V _{OH}	4.9	_	-	Vdc
Input Resistor	R1	3.3	4.7	6.1	kΩ
Resistor Ratio	R ₁ /R ₂	-	-	-	

4. Pulsed Condition: Pulse Width = 300 msec, Duty Cycle \leq 2%.

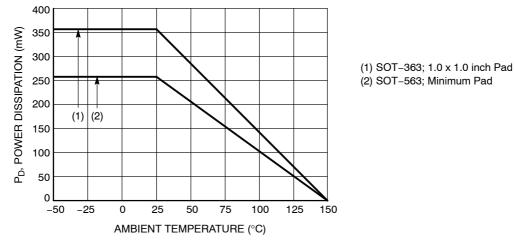
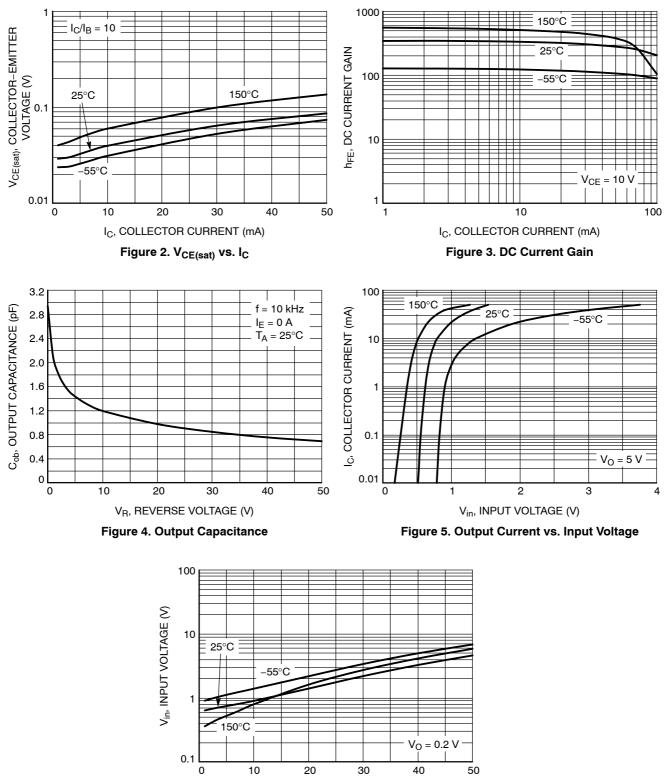


Figure 1. Derating Curve

MUN5216DW1, NSBC143TDXV6

TYPICAL CHARACTERISTICS MUN5216DW1, NSBC143TDXV6



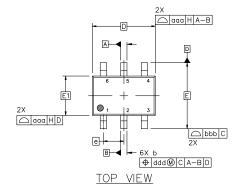
I_C, COLLECTOR CURRENT (mA)

Figure 6. Input Voltage vs. Output Current

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

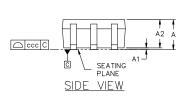
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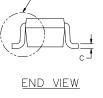
DUSEM



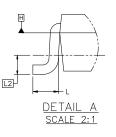
NOTES:

- DIMENSIONING AND TOLERANCING CONFORM TO ASME 1. Y14.5-2018.
- 2.
- 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 3. PER END.
- 4. DIMENSIONS D AND E1 AT THE OUTERMOST EXTREMES OF DATUMS A AND B ARE DETERMINED AT DATUM H.
- 5.
- DIMENSIONS & 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. 7 ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 TOTAL IN EXCESS OF DIMENSION & AT MAXIMUM MATERIAL CONDITION. THE DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT.

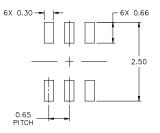




DETAIL A



	MI	LLIMETER	S		
DIM	MIN.	NOM.	MAX.		
A		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			



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.

XXX = Specific Device Code = Date Code* Μ

GENERIC **MARKING DIAGRAM***

XXXM-

0

6

= 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.

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



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	DESCRIPTI	ON: SOT-563-6 1	.60x1.20x0.55	, 0.50P				PAGE 1 OF 1

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