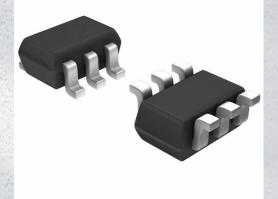


# **MUN5316DW1T1G Datasheet**

Manu

www.digi-electronics.com



DiGi Electronics Part Number	MUN5316DW1T1G-DG
Manufacturer	onsemi
Manufacturer Product Number	MUN5316DW1T1G
Description	TRANS PREBIAS 1NPN 1PNP 50V SC88
Detailed Description	Pre-Biased Bipolar Transistor (BJT) 1 NPN, 1 PNP - P re-Biased (Dual) 50V 100mA 250mW Surface Moun t SC-88/SC70-6/SOT-363

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## Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MUN5316DW1T1G	onsemi
Series:	Product Status:
	Active
Transistor Type:	Current - Collector (Ic) (Max):
1 NPN, 1 PNP - Pre-Biased (Dual)	100mA
Voltage - Collector Emitter Breakdown (Max):	Resistor - Base (R1):
50V	4.7kOhms
Resistor - Emitter Base (R2):	DC Current Gain (hFE) (Min) @ lc, Vce:
	160 @ 5mA, 10V
Vce Saturation (Max) @ lb, lc:	Current - Collector Cutoff (Max):
250mV @ 1mA, 10mA	500nA
Frequency - Transition:	Power - Max:
	250mW
Mounting Type:	Package / Case:
Surface Mount	6-TSSOP, SC-88, SOT-363
Supplier Device Package:	Base Product Number:
SC-88/SC70-6/SOT-363	MUN5316

## **Environmental & Export classification**

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

# onsemi

## Complementary Bias Resistor Transistors R1 = 4.7 k $\Omega$ , R2 = $\infty$ k $\Omega$

NPN and PNP Transistors with Monolithic Bias Resistor Network

# MUN5316DW1, NSBC143TPDXV6

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  $^\circ\text{C}$  both polarities Q1 (PNP) and Q2 (NPN), unless otherwise noted)

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	Ι <sub>C</sub>	100	mAdc
Input Forward Voltage	V <sub>IN(fwd)</sub>	30	Vdc
Input Reverse Voltage -NPN -PNP	V <sub>IN(rev)</sub>	6 5	Vdc

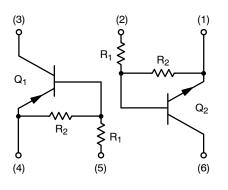
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

#### **ORDERING INFORMATION**

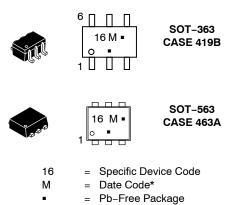
Device	Package	Shipping <sup>†</sup>
MUN5316DW1T1G NSVMUN5316DW1T1G*	SOT-363	3,000 / Tape & Reel
NSBC143TPDXV6T1G, NSVBC143TPDXV6T1G*	SOT-563	4,000 / Tape & Reel

<sup>†</sup>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.





#### MARKING DIAGRAMS



(Note: Microdot may be in either location)

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

1

#### THERMAL CHARACTERISTICS

	Characteristic	Symbol	Max	Unit
MUN5316DW1 (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)	PD	187 256 1.5 2.0	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ heta JA}$	670 490	°C/W
MUN5316DW1 (SOT-363)	Both Junction Heated (Note 3)			
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above 25°C	(Note 1) (Note 2) (Note 1) (Note 2)	PD	250 385 2.0 3.0	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	$R_{ ext{ heta}JA}$	493 325	°C/W
Thermal Resistance, Junction to Lead	(Note 1) (Note 2)	$R_{ ext{ heta}JL}$	188 208	°C/W
Junction and Storage Temperature Range		T <sub>J</sub> , T <sub>stg</sub>	–55 to +150	°C
NSBC143TPDXV6 (SOT-5	63) One Junction Heated			
Total Device Dissipation $T_A = 25^{\circ}C$ Derate above 25°C	(Note 1) (Note 1)	PD	357 2.9	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1)	R <sub>θJA</sub>	350	°C/W
NSBC143TPDXV6 (SOT-5	i63) Both Junction Heated (Note 3)			
Total Device Dissipation T <sub>A</sub> = 25°C Derate above 25°C	(Note 1) (Note 1)	PD	500 4.0	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1)	R <sub>θJA</sub>	250	°C/W
Junction and Storage Temp	perature Range	T <sub>J</sub> , T <sub>stg</sub>	–55 to +150	°C

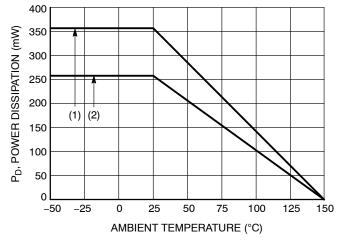
FR-4 @ Minimum Pad.
FR-4 @ 1.0 x 1.0 Inch Pad.
Both junction heated values assume total power is sum of two equally powered channels.

**ELECTRICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C both polarities Q<sub>1</sub> (PNP) and Q<sub>2</sub> (NPN), 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 $(V_{CE} = 50 \text{ V}, I_B = 0)$	ICEO	_	_	500	nAdc
Emitter-Base Cutoff Current ( $V_{EB} = 6.0 \text{ V}, I_C = 0$ )	I <sub>EBO</sub>	-	-	1.9	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 4) $(I_{C} = 2.0 \text{ mA}, I_{B} = 0)$	V <sub>(BR)CEO</sub>	50	-	-	Vdc
ON CHARACTERISTICS					
DC Current Gain (Note 4) (I <sub>C</sub> = 5.0 mA, V <sub>CE</sub> = 10 V)	h <sub>FE</sub>	160	350	-	
Collector–Emitter Saturation Voltage (Note 4) $(I_C = 10 \text{ mA}, I_B = 0.3 \text{ mA})$	V <sub>CE(sat)</sub>	_	-	0.25	Vdc
Input Voltage (off) ( $V_{CE} = 5.0 \text{ V}, I_C = 100 \mu\text{A}$ ) (NPN) ( $V_{CE} = 5.0 \text{ V}, I_C = 100 \mu\text{A}$ ) (PNP)	V <sub>i(off)</sub>	_	0.6 0.58	-	Vdc
Input Voltage (on) ( $V_{CE} = 0.2 \text{ V}, I_C = 10 \text{ mA}$ ) (NPN) ( $V_{CE} = 0.2 \text{ V}, I_C = 10 \text{ mA}$ ) (PNP)	V <sub>i(on)</sub>	-	0.9 1.0	-	Vdc
Output Voltage (on) (V <sub>CC</sub> = 5.0 V, V <sub>B</sub> = 2.5 V, R <sub>L</sub> = 1.0 k $\Omega$ )	V <sub>OL</sub>	-	-	0.2	Vdc
Output Voltage (off) (V <sub>CC</sub> = 5.0 V, V <sub>B</sub> = 0.5 V, R <sub>L</sub> = 1.0 kΩ)	V <sub>OH</sub>	4.9	-	_	Vdc
Input Resistor	R1	3.3	4.7	6.1	kΩ
Resistor Ratio	R <sub>1</sub> /R <sub>2</sub>	-	-	-	

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.

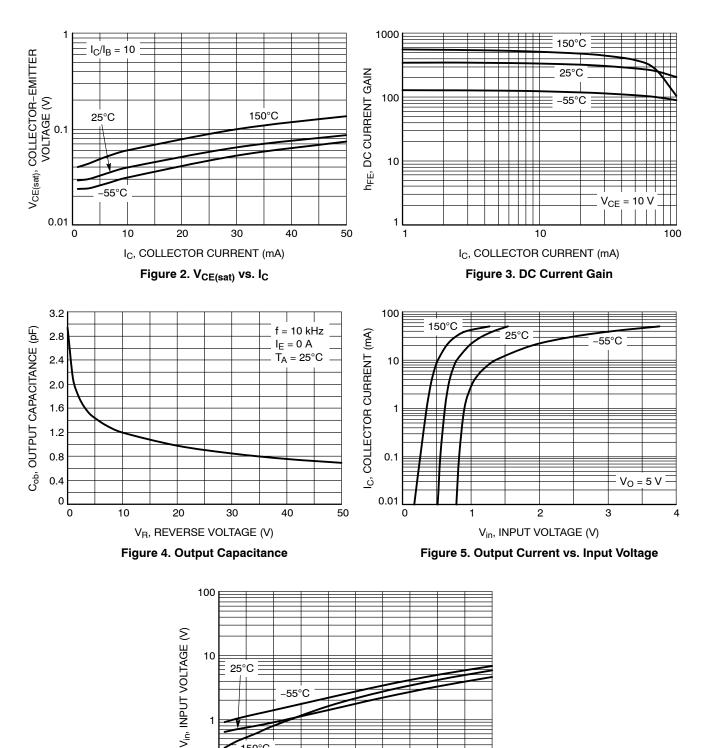
4. Pulsed Condition: Pulse Width = 300 msec, Duty Cycle  $\leq$  2%.



(1) SOT-363; 1.0 x 1.0 inch Pad (2) SOT-563; Minimum Pad

Figure 1. Derating Curve

#### **TYPICAL CHARACTERISTICS – NPN TRANSISTORS** MUN5316DW1, NSBC143TPDXV6



I<sub>C</sub>, COLLECTOR CURRENT (mA) Figure 6. Input Voltage vs. Output Current

30

20

V<sub>O</sub> = 0.2 V

50

40

150°C

10

0.1

0

#### TYPICAL CHARACTERISTICS – PNP TRANSISTORS MUN5316DW1, NSBC143TPDXV6

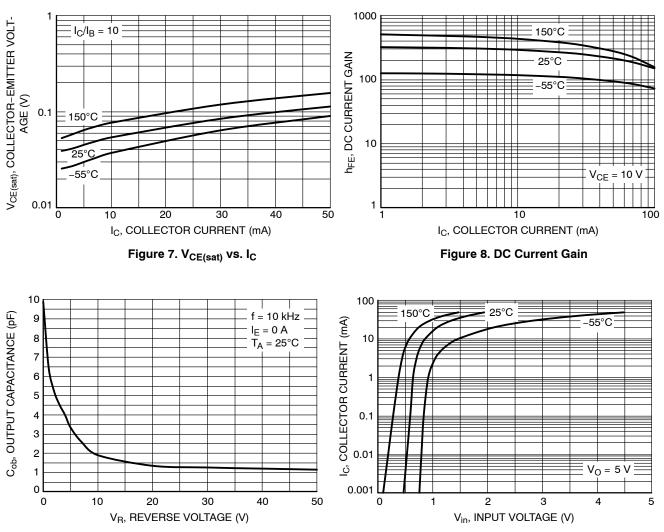


Figure 9. Output Capacitance



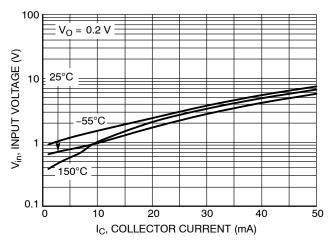


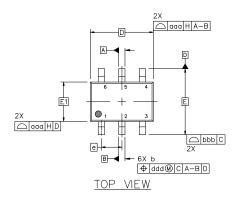
Figure 11. Input Voltage vs. Output Current



PACKAGE DIMENSIONS

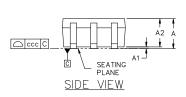
#### SC-88 2.00x1.25x0.90, 0.65P CASE 419B-02 **ISSUE Z**

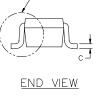
DATE 18 APR 2024



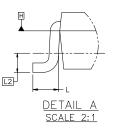
## NOTES:

- 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		

6X 0.66 6X 0.30-2.50 0.65 PITCH

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.

= Pb-Free Package (Note: Microdot may be in either location)

GENERIC **MARKING DIAGRAM\*** 

XXXM.

. 0

XXX = Specific Device Code

= Date Code\*

6

Μ

\*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:
PIN 1. BASE 1	PIN 1. SOURCE 1	PIN 1. BASE 2	PIN 1. DRAIN	PIN 1. ANODE	PIN 1. SOURCE 1
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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STYLE 1:

PIN 1. EMITTER 1 2. BASE 1

3. COLLECTOR 2

6. COLLECTOR 1

4. EMITTER 2

5. BASE 2

STYLE 4: PIN 1. COLLECTOR 2. COLLECTOR

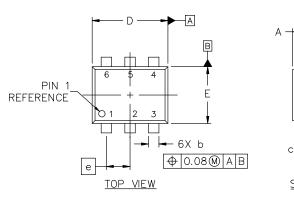
3. BASE

4. EMITTER 5. COLLECTOR 6. COLLECTOR

SOT-563-6 1.60x1.20x0.55, 0.50P CASE 463A ISSUE J

#### DATE 15 FEB 2024

- NOTES: 1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- 2. ALL DIMENSION ARE IN MILLIMETERS.
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM 3. THICKNESS OF BASE MATERIAL.



STYLE 2:

PIN 1. EMITTER 1

5. BASE 1

STYLE 5: PIN 1. CATHODE 2. CATHODE

3. ANDDE

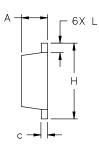
4. ANDDE 5. CATHODE

6. CATHODE

2. EMITTER 2 3. BASE 2

4. COLLECTOR 2

6. COLLECTOR 1



SIDE VIEW

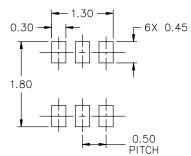
STYLE 3

PIN 1. CATHODE 1 2. CATHODE 1

3. ANDDE/ANDDE 2 4. CATHODE 2 5. CATHODE 2

6. ANDDE/ANDDE 1

DIM	MILLIMETERS		
DIM	MIN.	N□M.	MAX.
A	0.50	0.55	0.60
b	0.17	0.22	0.27
С	0.08	0.13	0.18
D	1.50	1.60	1.70
E	1.10	1.20	1.30
e	0.50 BSC		
Н	1.50	1.60	1.70
L	0.10	0.20	0.30



#### RECOMMENDED MOUNTING FOOTPRINT\*

STYLE 6: PIN 1. CATHODE 2. ANODE FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE 3. CATHODE 4. CATHODE 5. CATHODE MANUAL, SOLDERRM/D. 6. CATHODE GENERIC

PIN 1. CATHODE PIN 2. ANDDE 3. CATHODE 4. CATHODE 5. ANODE 6. CATHODE STYLE 10: STYL PIN 1. CATHODE 1 PIN 2. N/C 3. CATHODE 2 4. ANODE 2 5. N/C	E 8: 1. DRAIN 2. DRAIN 3. GATE 4. SDURCE 5. DRAIN 6. DRAIN E 11: 1. EMITTER 2 2. BASE 2 3. COLLECTOR 1 4. EMITTER 1 5. BASE 1 6. COLLECTOR 2	STYLE 9: PIN 1. SDURCE 1 2. GATE 1 3. DRAIN 2 4. SDURCE 2 5. GATE 2 6. DRAIN 1	MARKING DIAGRAM*	arking. ", may
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