Self-Protected Low Side Driver with Temperature and Current Limit

42 V, 14 A, Single N-Channel, SOT-223

NCV8403A/B is a three terminal protected Low-Side Smart Discrete device. The protection features include overcurrent, overtemperature, ESD and integrated Drain-to-Gate clamping for overvoltage protection. This device offers protection and is suitable for harsh automotive environments.

Features

- Short Circuit Protection
- Thermal Shutdown with Automatic Restart
- Over Voltage Protection
- Integrated Clamp for Inductive Switching
- ESD Protection
- dV/dt Robustness
- Analog Drive Capability (Logic Level Input)
- NCV 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

Typical Applications

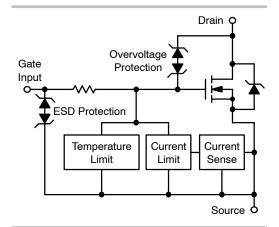
- Switch a Variety of Resistive, Inductive and Capacitive Loads
- Can Replace Electromechanical Relays and Discrete Circuits
- Automotive / Industrial

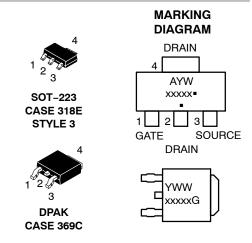


ON Semiconductor®

www.onsemi.com

V _{DSS} (Clamped)	R _{DS(on)} TYP	I _D MAX (Limited)
42 V	53 mΩ @ 10 V	15 A





A = Assembly Location

Y = Year

W, WW = Work Week

xxxxx = V8403A or V8403B

G or ■ = Pb-Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 10 of this data sheet.

MAXIMUM RATINGS ($T_J = 25^{\circ}C$ unless otherwise noted)

Rating	Symbol	Value	Unit
Drain-to-Source Voltage Internally Clamped	V _{DSS}	42	Vdc
Gate-to-Source Voltage	V _{GS}	±14	Vdc
Drain Current Continuous	I _D	Internally L	imited
	P _D	1.13 1.56 1.32 2.5	W
Thermal Resistance – SOT–223 Version Junction–to–Soldering Point Junction–to–Ambient (Note 1) Junction–to–Ambient (Note 2) Thermal Resistance – DPAK Version Junction–to–Soldering Point Junction–to–Ambient (Note 1) Junction–to–Ambient (Note 2)	R _{θJS} R _{θJA} R _{θJA} R _{θJA} R _{θJA}	12 110 80 2.5 95 50	°C/W
Single Pulse Inductive Load Switching Energy (V _{DD} = 25 Vdc, V _{GS} = 5.0 V, I _L = 2.8 A, L = 120 mH, R _G = 25 Ω)	E _{AS}	470	mJ
Load Dump Voltage (V _{GS} = 0 and 10 V, R _I = 2.0 Ω , R _L = 4.5 Ω , t _d = 400 ms)	V_{LD}	55	٧
Operating Junction Temperature	TJ	-40 to 150	°C
Storage Temperature	T _{stg}	-55 to 150	°C

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.

1. Surface mounted onto minimum pad size (0.412" square) FR4 PCB, 1 oz cu.

2. Mounted onto 1" square pad size (1.127" square) FR4 PCB, 1 oz cu.

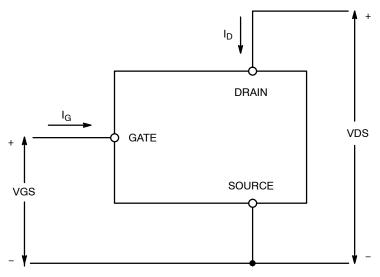


Figure 1. Voltage and Current Convention

$\textbf{MOSFET ELECTRICAL CHARACTERISTICS} \ (T_J = 25^{\circ}\text{C unless otherwise noted})$

Characte	Symbol	Min	Тур	Max	Unit	
OFF CHARACTERISTICS						
$\begin{array}{l} \text{Drain-to-Source Clamped Breakdown Vol} \\ \text{(V}_{GS} = 0 \text{ Vdc, I}_D = 250 \ \mu\text{Adc)} \\ \text{(V}_{GS} = 0 \text{ Vdc, I}_D = 250 \ \mu\text{Adc, T}_J = -40^{\circ} \end{array}$	V _{(BR)DSS}	42 40	46 45	51 51	Vdc Vdc	
Zero Gate Voltage Drain Current $(V_{DS} = 32 \text{ Vdc}, V_{GS} = 0 \text{ Vdc})$ $(V_{DS} = 32 \text{ Vdc}, V_{GS} = 0 \text{ Vdc}, T_J = 150^{\circ}$	C) (Note 3)	I _{DSS}	_ _	0.6 2.5	5.0 -	μAdc
Gate Input Current (V _{GS} = 5.0 Vdc, V _{DS} = 0 Vdc)		I _{GSS}	-	50	125	μAdc
ON CHARACTERISTICS						
Gate Threshold Voltage (V _{DS} = V _{GS} , I _D = 1.2 mAdc) Threshold Temperature Coefficient (Ne	gative)	V _{GS(th)}	1.0	1.7 5.0	2.2 -	Vdc mV/°C
Static Drain-to-Source On-Resistance (N $(V_{GS} = 10 \text{ Vdc}, I_D = 3.0 \text{ Adc}, T_J @ 25^{\circ})$ $(V_{GS} = 10 \text{ Vdc}, I_D = 3.0 \text{ Adc}, T_J @ 150^{\circ})$	C) '	R _{DS(on)}	_ _	53 95	68 123	mΩ
Static Drain-to-Source On-Resistance (N $(V_{GS} = 5.0 \text{ Vdc}, I_D = 3.0 \text{ Adc}, T_J @ 25^{\circ})$ ($V_{GS} = 5.0 \text{ Vdc}, I_D = 3.0 \text{ Adc}, T_J @ 150^{\circ})$	C)	R _{DS(on)}	_ _	63 105	76 135	mΩ
Source-Drain Forward On Voltage (I _S = 7.0 A, V _{GS} = 0 V)		V _{SD}	-	0.95	1.1	V
SWITCHING CHARACTERISTICS (Note 3	3)	-	•	3	=	-
Turn-ON Time (10% V _{IN} to 90% I _D)	V _{IN} = 0 V to 5 V, V _{DD} = 25 V	t _{ON}		44		μs
Turn-OFF Time (90% V _{IN} to 10% I _D)	$I_D = 1.0 \text{ A, Ext R}_G = 2.5 \Omega$	t _{OFF}		84		1
Turn-ON Time (10% V _{IN} to 90% I _D)	V _{IN} = 0 V to 10 V, V _{DD} = 25 V	t _{ON}		15		1
Turn-OFF Time (90% V _{IN} to 10% I _D)	$I_D = 1.0 \text{ A, Ext R}_G = 2.5 \Omega$	t _{OFF}		116		
Slew-Rate ON (20% V _{DS} to 50% V _{DS})	V _{in} = 0 to 10 V, V _{DD} = 12 V,	$-dV_{DS}/dt_{ON}$		2.43		V/μs
Slew–Rate OFF (80% V_{DS} to 50% V_{DS}) $R_{L} = 4.7 \Omega$		dV _{DS} /dt _{OFF}		0.83		
SELF PROTECTION CHARACTERISTICS	$(T_J = 25^{\circ}C \text{ unless otherwise noted})$ (N	lote 5)				
Current Limit	V _{GS} = 5.0 V, V _{DS} = 10 V V _{GS} = 5.0 V, T _J = 150°C (Note 3)	I _{LIM}	10 5.0	15 10	20 15	Adc
Current Limit	$V_{GS} = 10 \text{ V}, V_{DS} = 10 \text{ V}$ $V_{GS} = 10 \text{ V}, T_{J} = 150^{\circ}\text{C} \text{ (Note 3)}$	I _{LIM}	12 8.0	17 13	22 18	Adc
Temperature Limit (Turn-off)	V _{GS} = 5.0 Vdc (Note 3)	T _{LIM(off)}	150	175	200	°C
Thermal Hysteresis	V _{GS} = 5.0 Vdc	$\Delta T_{LIM(on)}$	-	15	_	°C
Temperature Limit (Turn-off)	V _{GS} = 10 Vdc (Note 3)	T _{LIM(off)}	150	165	185	°C
Thermal Hysteresis	V _{GS} = 10 Vdc	$\Delta T_{LIM(on)}$	-	15	_	°C
GATE INPUT CHARACTERISTICS (Note	,					
Device ON Gate Input Current	V _{GS} = 5 V I _D = 1.0 A	I _{GON}		50		μΑ
	V _{GS} = 10 V I _D = 1.0 A			400		
Current Limit Gate Input Current	V _{GS} = 5 V, V _{DS} = 10 V	I _{GCL}		0.1		mA
	V _{GS} = 10 V, V _{DS} = 10 V			0.6		
Thermal Limit Fault Gate Input Current	V _{GS} = 5 V, V _{DS} = 10 V V _{GS} = 10 V, V _{DS} = 10 V	I _{GTL}		0.45		mA
			1.5			
ESD ELECTRICAL CHARACTERISTICS	(T _J = 25°C unless otherwise noted) (No	ote 3)				
Electro-Static Discharge Capability	Human Body Model (HBM)	ESD	4000	_	_	V
Electro-Static Discharge Capability	Machine Model (MM)	ESD	400	-	_	V

- Not subject to production testing.
 Pulse Test: Pulse Width = 300 μs, Duty Cycle = 2%.
 Fault conditions are viewed as beyond the normal operating range of the part.

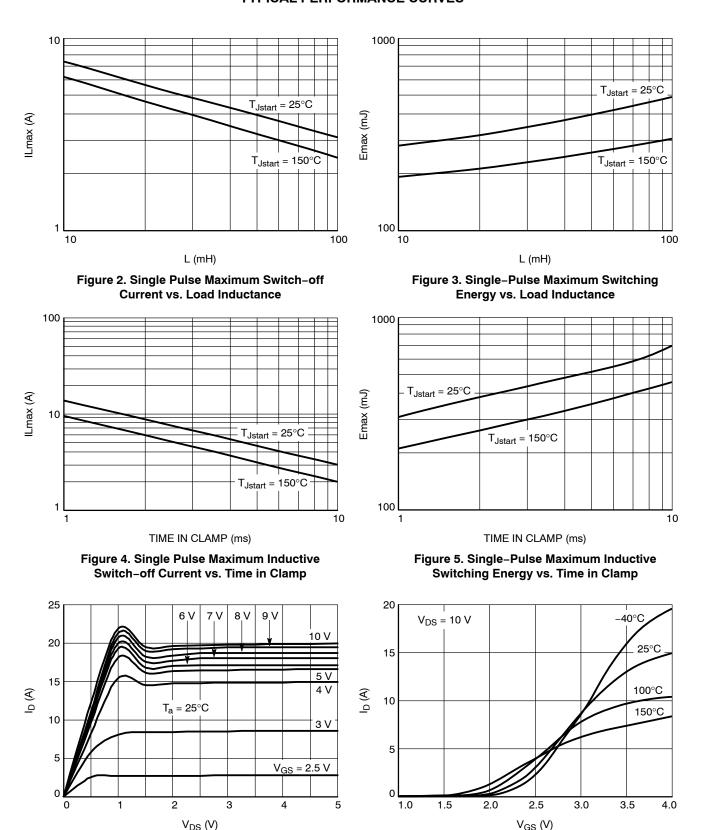


Figure 6. On-state Output Characteristics Figure 7. Transfer Characteristics

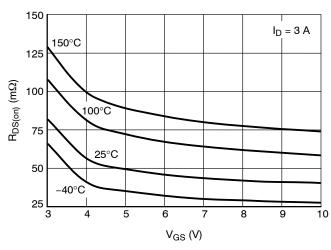


Figure 8. R_{DS(on)} vs. Gate-Source Voltage

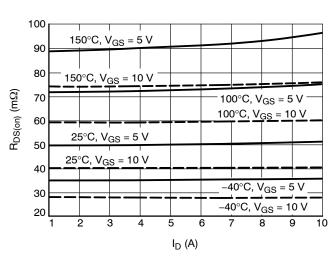


Figure 9. R_{DS(on)} vs. Drain Current

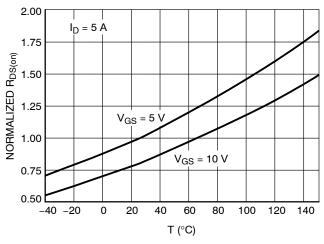


Figure 10. Normalized R_{DS(on)} vs. Temperature

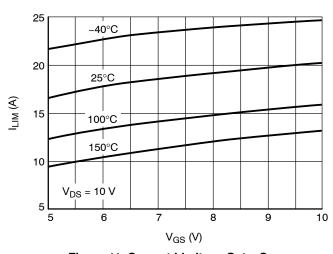


Figure 11. Current Limit vs. Gate-Source Voltage

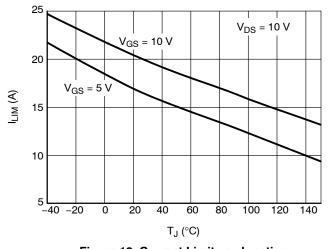


Figure 12. Current Limit vs. Junction Temperature

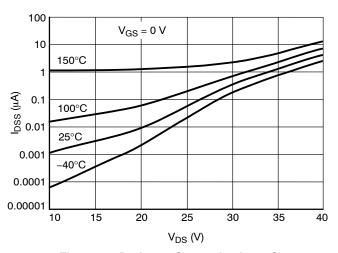


Figure 13. Drain-to-Source Leakage Current

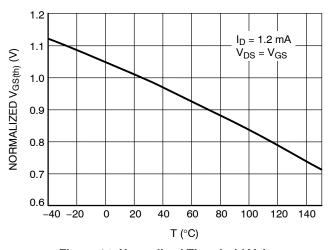


Figure 14. Normalized Threshold Voltage vs. Temperature

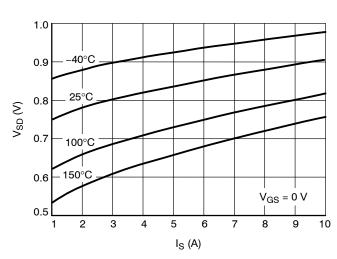


Figure 15. Source-Drain Diode Forward
Characteristics

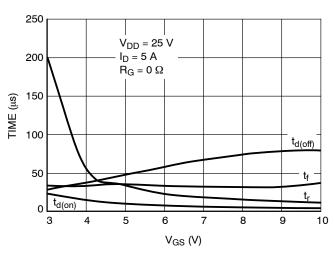


Figure 16. Resistive Load Switching Time vs.
Gate-Source Voltage

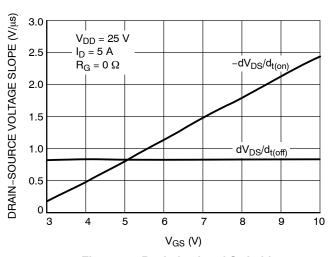


Figure 17. Resistive Load Switching
Drain-Source Voltage Slope vs. Gate-Source
Voltage

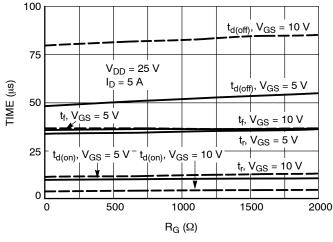


Figure 18. Resistive Load Switching Time vs.
Gate Resistance

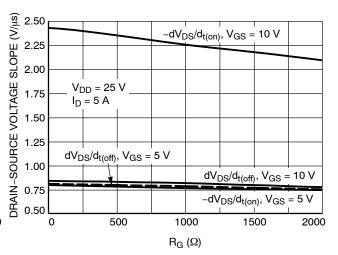


Figure 19. Drain-Source Voltage Slope during Turn On and Turn Off vs. Gate Resistance

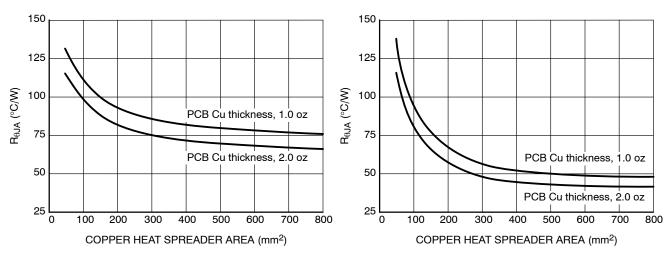


Figure 20. $R_{\theta JA}$ vs. Copper Area – SOT–223

Figure 21. $R_{\theta JA}$ vs. Copper Area – DPAK

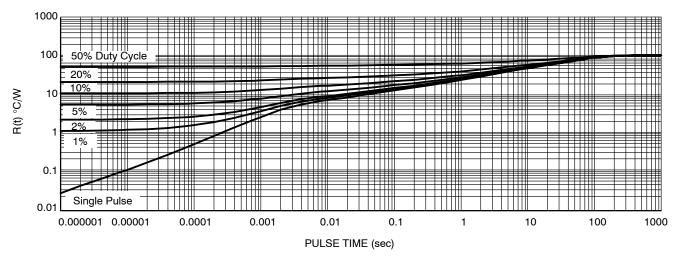


Figure 22. Transient Thermal Resistance - SOT-223 Version

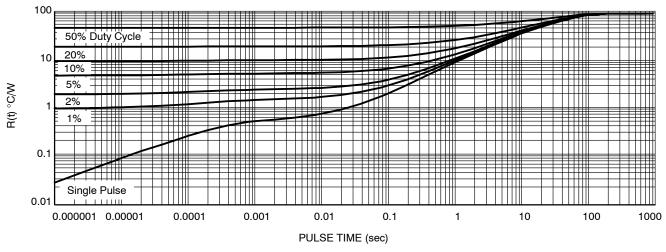


Figure 23. Transient Thermal Resistance - DPAK Version

TEST CIRCUITS AND WAVEFORMS

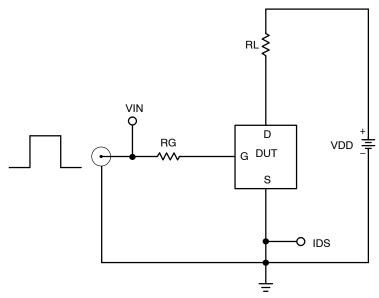


Figure 24. Resistive Load Switching Test Circuit

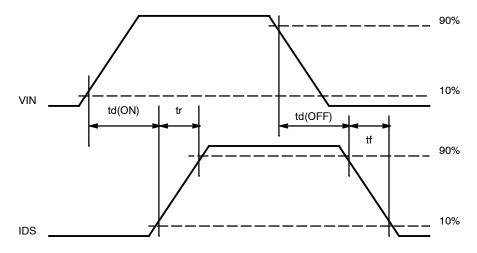


Figure 25. Resistive Load Switching Waveforms

TEST CIRCUITS AND WAVEFORMS

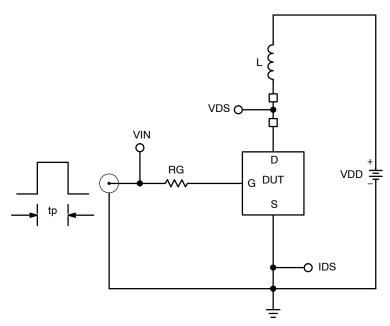


Figure 26. Inductive Load Switching Test Circuit

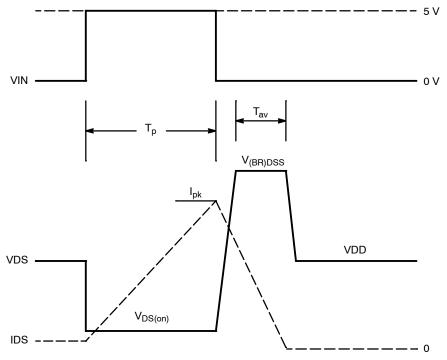


Figure 27. Inductive Load Switching Waveforms

ORDERING INFORMATION

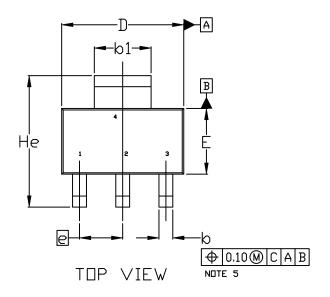
Device	Package	Shipping [†]
NCV8403ASTT1G	SOT-223 (Pb-Free)	1000 / Tape & Reel
NCV8403ASTT3G	SOT-223 (Pb-Free)	4000 / Tape & Reel
NCV8403ADTRKG	DPAK (Pb-Free)	2500 / Tape & Reel
NCV8403BDTRKG	DPAK (Pb-Free)	2500 / Tape & Reel

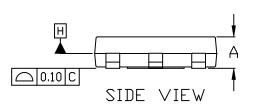
[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

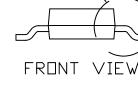


SOT-223 (TO-261) CASE 318E-04 ISSUE R

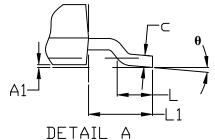
DATE 02 OCT 2018







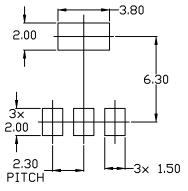
SEE DETAIL A



NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 3. DIMENSIONS D & E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.
 MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.200MM PER SIDE.
- 4. DATUMS A AND B ARE DETERMINED AT DATUM H.
- 5. ALLIS DEFINED AS THE VERTICAL DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT OF THE PACKAGE BODY.
- 6. POSITIONAL TOLERANCE APPLIES TO DIMENSIONS 6 AND 61.

	MILLIMETERS			
DIM	MIN.	N□M.	MAX.	
Α	1.50	1.63	1.75	
A1	0.02	0.06	0.10	
b	0.60	0.75	0.89	
b1	2.90	3.06	3.20	
C	0.24	0.29	0.35	
D	6.30	6.50	6.70	
E	3.30	3.50	3.70	
е		2,30 BSC	,	
L	0.20			
L1	1.50	1.75	2.00	
He	6.70	7.00	7.30	
θ	0°		10°	



RECOMMENDED MOUNTING FOOTPRINT

DOCUMENT NUMBER:	98ASB42680B Electronic versions are uncontrolled except when accessed d Printed versions are uncontrolled except when stamped "CON		
DESCRIPTION:	SOT-223 (TO-261)		PAGE 1 OF 2

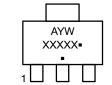
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SOT-223 (TO-261) CASE 318E-04 ISSUE R

DATE 02 OCT 2018

STYLE 1: PIN 1. BASE 2. COLLECTOR 3. EMITTER 4. COLLECTOR	STYLE 2: PIN 1. ANODE 2. CATHODE 3. NC 4. CATHODE	STYLE 3: PIN 1. GATE 2. DRAIN 3. SOURCE 4. DRAIN	STYLE 4: PIN 1. SOURCE 2. DRAIN 3. GATE 4. DRAIN	STYLE 5: PIN 1. DRAIN 2. GATE 3. SOURCE 4. GATE
STYLE 6: PIN 1. RETURN 2. INPUT 3. OUTPUT 4. INPUT	STYLE 7: PIN 1. ANODE 1 2. CATHODE 3. ANODE 2 4. CATHODE	STYLE 8: CANCELLED	STYLE 9: PIN 1. INPUT 2. GROUND 3. LOGIC 4. GROUND	STYLE 10: PIN 1. CATHODE 2. ANODE 3. GATE 4. ANODE
STYLE 11: PIN 1. MT 1 2. MT 2 3. GATE 4. MT 2	STYLE 12: PIN 1. INPUT 2. OUTPUT 3. NC 4. OUTPUT	STYLE 13: PIN 1. GATE 2. COLLECTOR 3. EMITTER 4. COLLECTOR		

GENERIC MARKING DIAGRAM*



A = Assembly Location

Y = Year W = Work Week

XXXXX = Specific Device Code

= 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.

DOCUMENT NUMBER:	98ASB42680B	Electronic versions are uncontrolled except when accessed directly from Printed versions are uncontrolled except when stamped "CONTROLLED (
DESCRIPTION:	SOT-223 (TO-261)		PAGE 2 OF 2

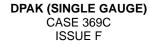
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ROTATED 90° CW

STYLE 1:

STYLE 2:





DATE 21 JUL 2015

- IOTES. 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994. 2. CONTROLLING DIMENSION: INCHES. 3. THERMAL PAD CONTOUR OPTIONAL WITHIN DI-

- MENSIONS b3, L3 and Z.

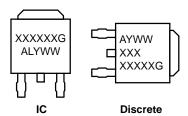
 Jimensions b And E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.006 INCHES PER SIDE.

 MENSIONS D AND E ARE DETERMINED AT THE
- OUTERMOST EXTREMES OF THE PLASTIC BODY.

 6. DATUMS A AND B ARE DETERMINED AT DATUM
- 7. OPTIONAL MOLD FEATURE.

	INC	INCHES		IETERS
DIM	MIN	MAX	MIN	MAX
Α	0.086	0.094	2.18	2.38
A1	0.000	0.005	0.00	0.13
b	0.025	0.035	0.63	0.89
b2	0.028	0.045	0.72	1.14
b3	0.180	0.215	4.57	5.46
С	0.018	0.024	0.46	0.61
c2	0.018	0.024	0.46	0.61
D	0.235	0.245	5.97	6.22
E	0.250	0.265	6.35	6.73
е	0.090	BSC	2.29 BSC	
Н	0.370	0.410	9.40	10.41
L	0.055	0.070	1.40	1.78
L1	0.114 REF		2.90	REF
L2	0.020	BSC	0.51	BSC
L3	0.035	0.050	0.89	1.27
L4		0.040		1.01
Z	0.155		3.93	

GENERIC MARKING DIAGRAM*



XXXXXX = Device Code = Assembly Location Α = Wafer Lot L

Υ = Year WW = Work Week G = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking.

В L3 Ζ Ո DETAIL A NOTE 7 **BOTTOM VIEW** Cb2 е SIDE VIEW | \oplus | 0.005 (0.13) lacktriangle C **TOP VIEW** Z Ħ L2 GAUGE C SEATING PLANE **BOTTOM VIEW** Α1 ALTERNATE CONSTRUCTIONS **DETAIL A**

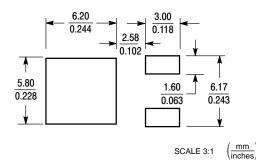
3. EMITTER	3. SOURCE	 ANODE CATHODE 	3. GATE	3. CATHODE
4. COLLECTOR	4. DRAIN		4. ANODE	4. ANODE
3. GATE 3. EMI	LECTOR 2. TTER 3.	N/C PIN CATHODE ANODE	E 9: 1. ANODE 2. CATHODE 3. RESISTOR ADJUST 4. CATHODE	STYLE 10: PIN 1. CATHODE 2. ANODE 3. CATHODE 4. ANODE

STYLE 4:

STYLE 5:

STYLE 3:

SOLDERING 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.

DESCRIPTION:	DPAK SINGLE GAUGE SURFACE MOUNT		PAGE 1 OF 2
NEW STANDARD:	REF TO JEDEC TO-252	"CONTROLLED COPY" in red.	
STATUS:	ON SEMICONDUCTOR STANDARD	accessed directly from the Document versions are uncontrolled except	
DOCUMENT NUMBER:	98AON10527D	Electronic versions are uncontrolle	'



DOCUMENT	NUMBER:
98AON10527	7D

PAGE 2 OF 2

ISSUE	REVISION	DATE
0	RELEASED FOR PRODUCTION. REQ. BY L. GAN	24 SEP 2001
Α	ADDED STYLE 8. REQ. BY S. ALLEN.	06 AUG 2008
В	ADDED STYLE 9. REQ. BY D. WARNER.	16 JAN 2009
С	ADDED STYLE 10. REQ. BY S. ALLEN.	09 JUN 2009
D	RELABELED DRAWING TO JEDEC STANDARDS. ADDED SIDE VIEW DETAIL A. CORRECTED MARKING INFORMATION. REQ. BY D. TRUHITTE.	29 JUN 2010
E	ADDED ALTERNATE CONSTRUCTION BOTTOM VIEW. MODIFIED DIMENSIONS b2 AND L1. CORRECTED MARKING DIAGRAM FOR DISCRETE. REQ. BY I. CAMBALIZA.	06 FEB 2014
F	ADDED SECOND ALTERNATE CONSTRUCTION BOTTOM VIEW. REQ. BY K. MUSTAFA.	21 JUL 2015

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