Voltage Regulator - Low Dropout

400 mA

NCV4274C

Description

The NCV4274C is a precision micro−power voltage regulator with an output current capability of 400 mA available in the DPAK, D2PAK and SOT−223 packages.

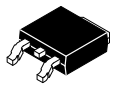
The output voltage is accurate within ±2.0% with a maximum dropout voltage of 0.5 V with an input up to 40 V. Low quiescent current is a feature drawing only 125 μA with a 1 mA load. This part is ideal for automotive and all battery operated microprocessor equipment.

The regulator is protected against reverse battery, short circuit, and thermal overload conditions. The device can withstand load dump transients making it suitable for use in automotive environments.

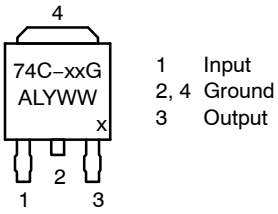
Features

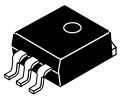
- 3.3 V, 5.0 V, ±2.0% Output Options
- Low 125 μA Quiescent Current at 1 mA load current
- 400 mA Output Current Capability
- Fault Protection
- +60 V Peak Transient Voltage with Respect to GND
  - −42 V Reverse Voltage
  - Short Circuit
  - Thermal Overload
- Very Low Dropout Voltage
- NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC−Q100 Qualified and PPAP Capable
- These are Pb−Free Devices

MARKING DIAGRAMS

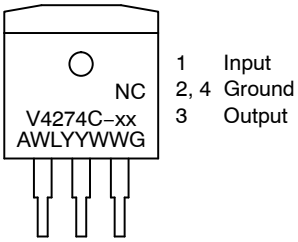


DPAK
DT SUFFIX
CASE 369C



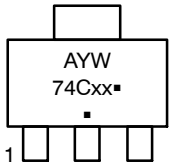


D2PAK
DS SUFFIX
CASE 418AF





SOT−223
ST SUFFIX
CASE 318E



xx	= 33 (3.3 V)
	= 50 (5.0 V)
A	= Assembly Location
L, WL	= Wafer Lot
Y, YY	= Year
W, WW	= Work Week
G or ▪	= Pb−Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information on page 12 of this data sheet.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 12.

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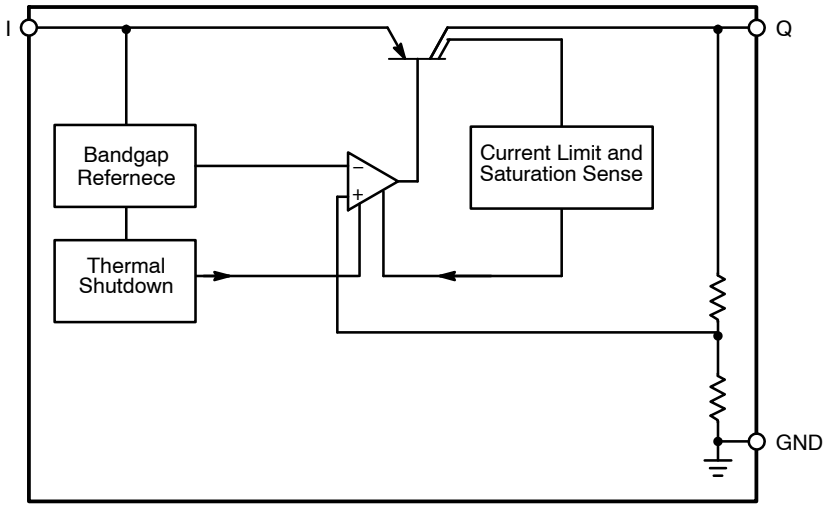

Figure 1. Block Diagram

Pin Definitions and Functions

Pin No.	Symbol	Function
1	I	Input; Bypass directly at the IC with a ceramic capacitor to GND.
2,4	GND	Ground
3	Q	Output; Bypass with a capacitor to GND.

ABSOLUTE MAXIMUM RATINGS

Pin Symbol, Parameter		Symbol	Condition	Min	Max	Unit
I, Input−to−Regulator	Voltage	V_I		−42	45	V
	Current	I_I		Internally Limited	Internally Limited	
I, Input peak Transient Voltage to Regulator with Respect to GND (Note 1)		V_I			60	V
Q, Regulated Output	Voltage	V_Q	$V_Q = V_I$	−1.0	40	V
	Current	I_Q		Internally Limited	Internally Limited	
GND, Ground Current		I_{GND}		−	100	mA
Junction Temperature Storage Temperature		T_J T_{Stg}		−40 −50	150 150	°C °C
ESD Capability, Human Body Model (Note 2)		ESD_{HB}		4		kV
ESD Capability, Machine Model (Note 2)		ESD_{MM}		200		V
ESD Capability, Charged Device Model (Note 2)		ESD_{CDM}		1		kV

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. Load Dump Test B (with centralized load dump suppression) according to ISO16750-2 standard. Guaranteed by design. Not tested in production. Passed Class C.
2. This device series incorporates ESD protection and is tested by the following methods:
   ESD HBM tested per AEC−Q100−002 (EIA/JESD22−A114)
   ESD MM tested per AEC−Q100−003 (EIA/JESD22−A115)
   Field Induced Charge Device Model ESD characterization is not performed on plastic molded packages with body sizes <50mm^2 due to the inability of a small package body to acquire and retain enough charge to meet the minimum CDM discharge current waveform characteristic defined in JEDEC JS−002−2014.

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OPERATING RANGE

Parameter	Symbol	Condition	Min	Max	Unit
Input Voltage (5.0 V Version)	V_I		5.5	40	V
Input Voltage (3.3 V Version)	V_I		4.5	40	V
Junction Temperature	T_J		−40	150	°C

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

THERMAL RESISTANCE

Parameter		Symbol	Condition	Min	Max	Unit
Junction−to−Ambient	DPAK	R_{thja}		−	72.5 (Note 3)	°C/W
Junction−to−Ambient	D2PAK	R_{thja}		−	56.7 (Note 3)	°C/W
Junction−to−Case	DPAK	R_{thjc}		−	5.8	°C/W
Junction−to−Case	D2PAK	R_{thjc}		−	5.8	°C/W
Junction−to−Tab	SOT−223	Ψ_{-JLX}, Ψ_{LX}		−	15.6 (Note 3)	°C/W
Junction−to−Ambient	SOT−223	$R_{\theta JA}$, θ_{JA}		−	87 (Note 3)	°C/W

3. 1 oz copper, 300 mm^2 copper area, single−sided FR4 PCB.

MOISTURE SENSITIVITY LEVEL (Note 4)

Parameter	Symbol	Condition	Min	Max	Unit
Moisture Sensitivity Level	MSL	DPAK and D2PAK SOT−223	1 3	− −	

4. For more information, please refer to our Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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ELECTRICAL CHARACTERISTICS
$-40°C < T_J < 150°C$; V_I = 13.5 V unless otherwise noted.

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
REGULATOR						
Output Voltage (5.0 V Version)	V_Q	5 mA < I_Q < 400 mA 6 V < V_I < 28 V	4.9	5.0	5.1	V
Output Voltage (5.0 V Version)	V_Q	5 mA < I_Q < 200 mA 6 V < V_I < 40 V	4.9	5.0	5.1	V
Output Voltage (3.3 V Version)	V_Q	5 mA < I_Q < 400 mA 4.5 V < V_I < 28 V	3.23	3.3	3.37	V
Output Voltage (3.3 V Version)	V_Q	5 mA < I_Q < 200 mA 4.5 V < V_I < 40 V	3.23	3.3	3.37	V
Current Limit (All Versions)	I_Q	V_Q = 90% V_{QTYP}	400	600	–	mA
Quiescent Current	I_q	I_Q = 1 mA V_Q = 5.0 V V_Q = 3.3 V I_Q = 250 mA V_Q = 5.0 V V_Q = 3.3 V I_Q = 400 mA V_Q = 5.0 V V_Q = 3.3 V	 – – – – – –	 125 125 5 5 10 10	 250 250 15 15 35 35	 μA μA mA mA mA mA
Dropout Voltage 5.0 V Version	V_{DR}	I_Q = 250 mA, V_{DR} = V_I – V_Q V_I = 5.0 V	 –	 250	 500	 mV
Load Regulation (3.3 V and 5 V Versions)	ΔV_Q	I_Q = 5 mA to 400 mA	–	3	20	mV
Line Regulation (3.3 V and 5 V Versions)	ΔV_Q	ΔV_I = 12 V to 32 V I_Q = 5 mA	–	4	25	mV
Power Supply Ripple Rejection	PSRR	fr = 100 Hz, V_r = 0.5 V_{PP}	–	60	–	dB
Thermal Shutdown Temperature*	T_{SD}	I_Q = 5 mA	150	–	210	°C

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.
*Guaranteed by design, not tested in production

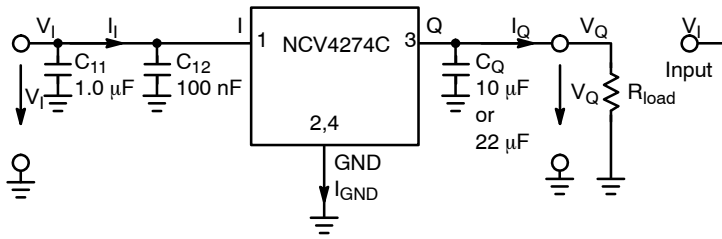

Figure 2. Measuring Circuit

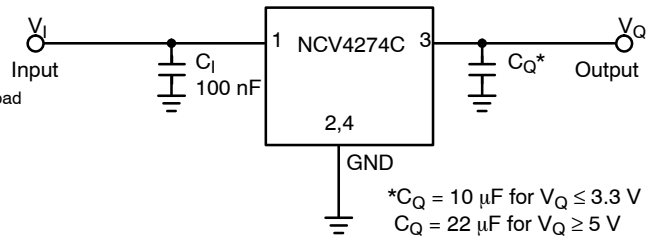

Figure 3. Application Circuit

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TYPICAL CHARACTERISTIC CURVES – 5 V VERSION

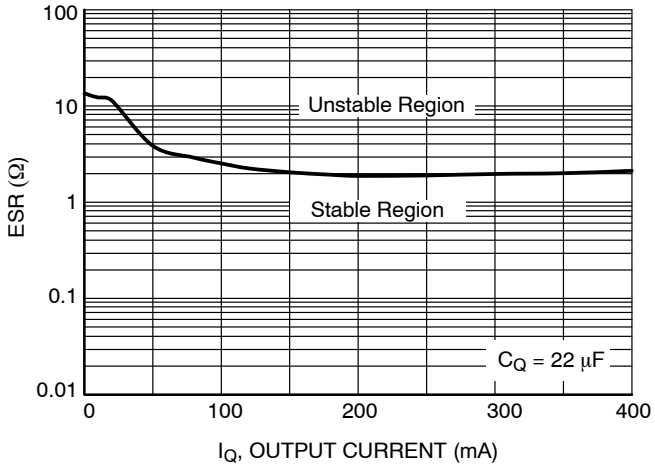

Figure 4. Output Stability with Output Capacitor ESR

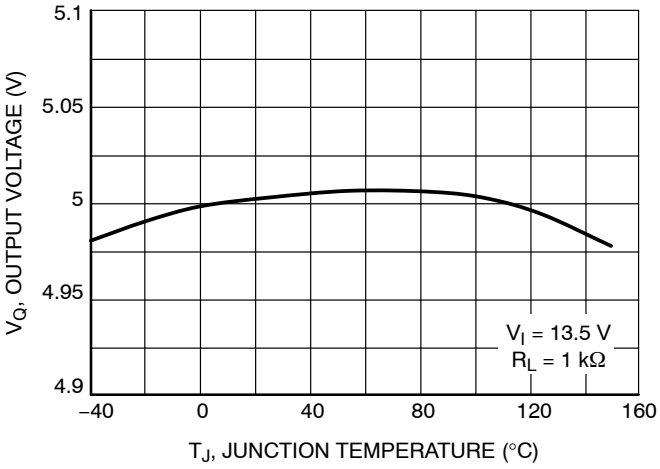

Figure 5. Output Voltage vs. Junction Temperature

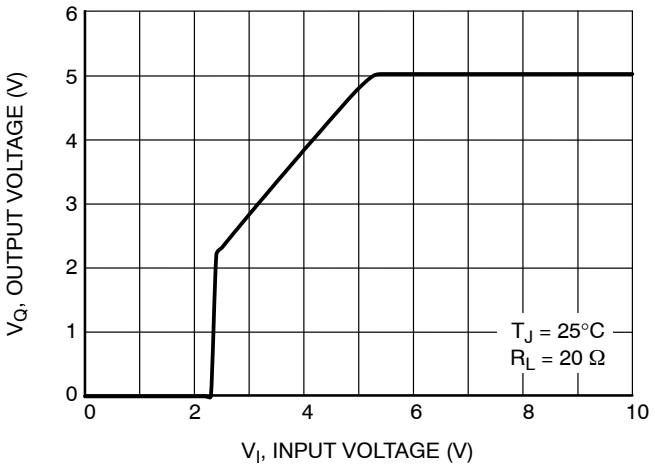

Figure 6. Output Voltage vs. Input Voltage

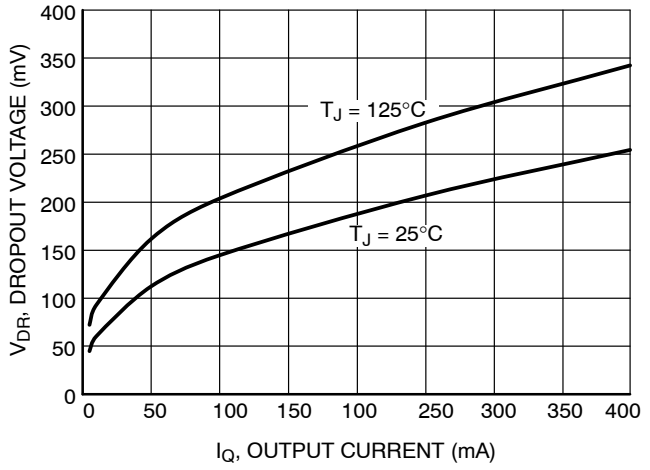

Figure 7. Dropout Voltage vs. Output Current

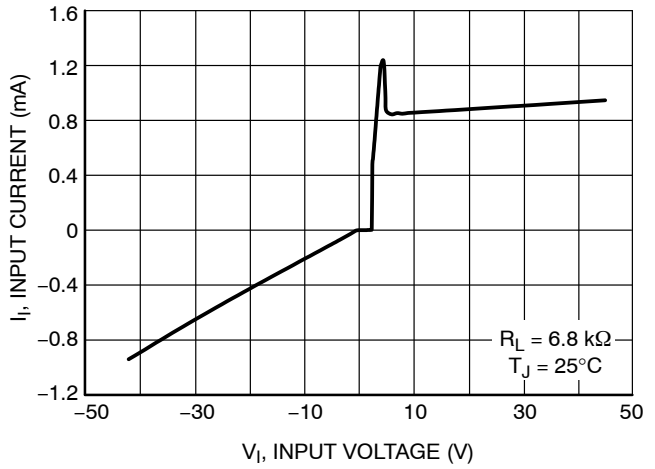

Figure 8. Input Current vs. Input Voltage

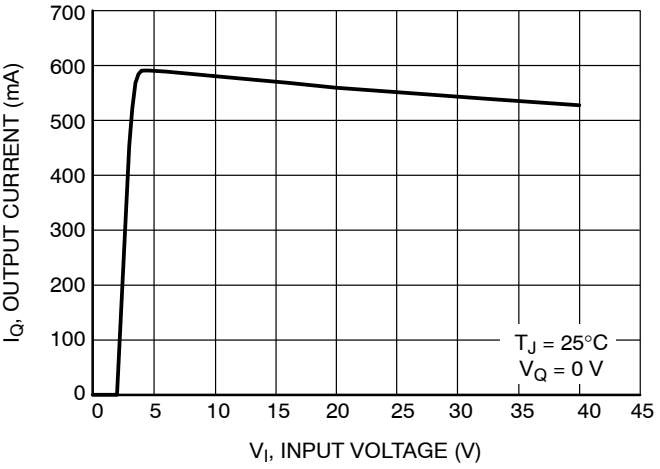

Figure 9. Maximum Output Current vs. Input Voltage

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TYPICAL CHARACTERISTIC CURVES – 5 V VERSION

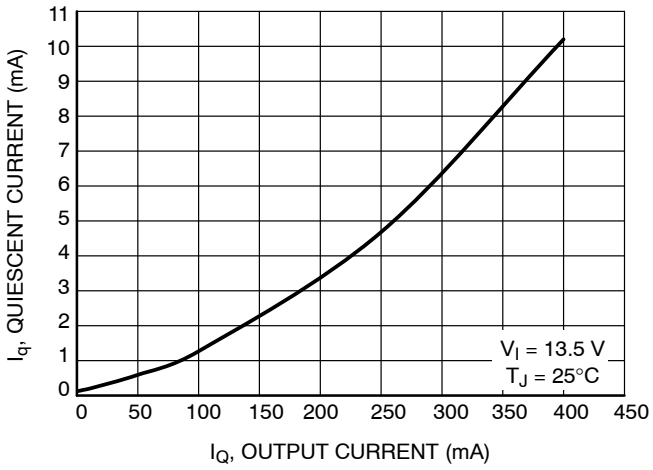

Figure 10. Quiescent Current vs. Output Current (High Load)

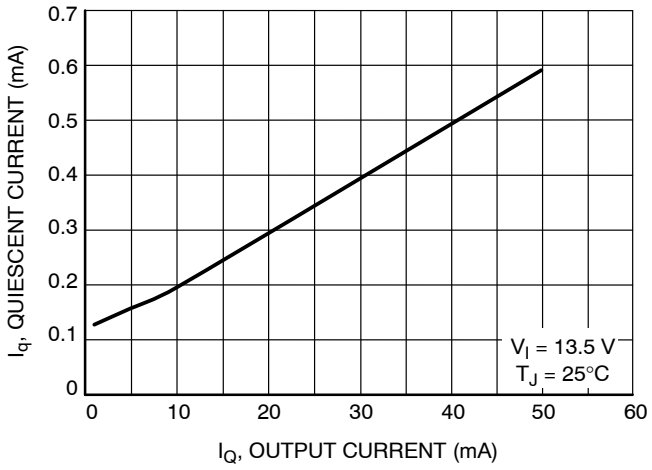

Figure 11. Quiescent Current vs. Output Current (Low Load)

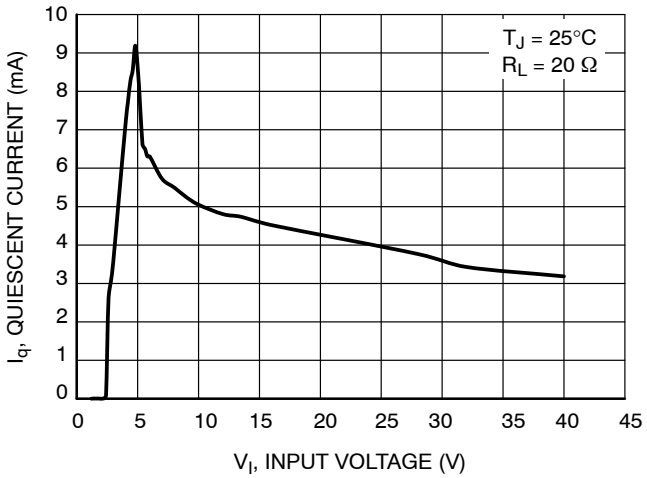

Figure 12. Quiescent Current vs. Input Voltage

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TYPICAL CHARACTERISTIC CURVES – 3.3 V VERSION

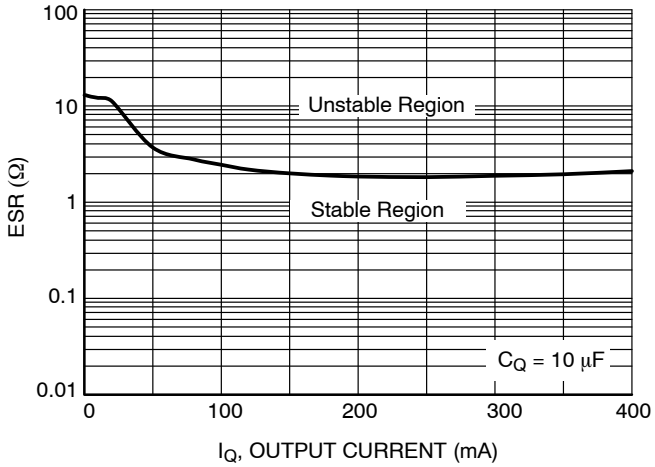

Figure 13. Output Stability with Output Capacitor ESR

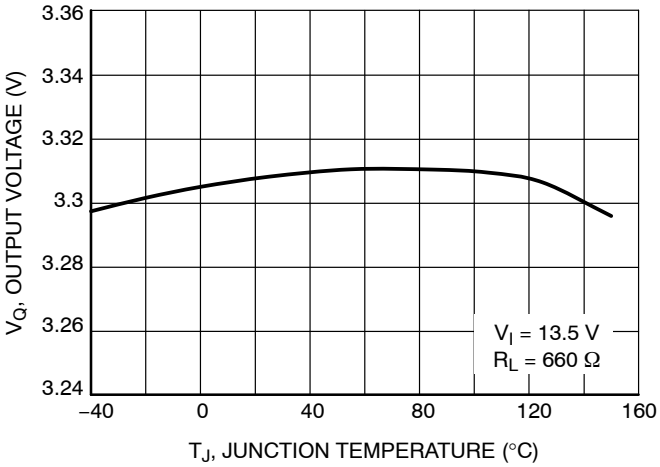

Figure 14. Output Voltage vs. Junction Temperature

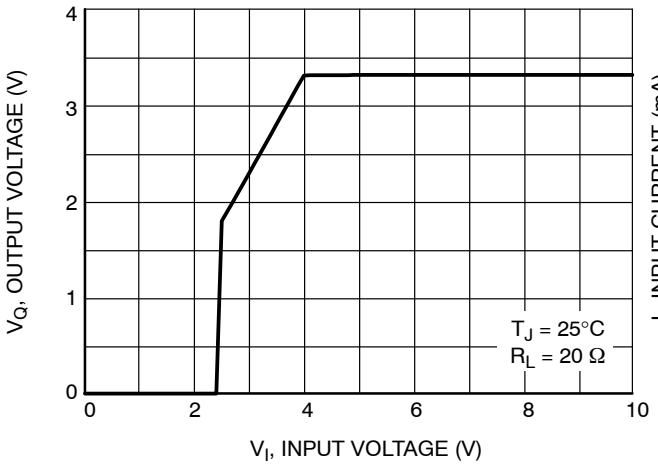

Figure 15. Output Voltage vs. Input Voltage

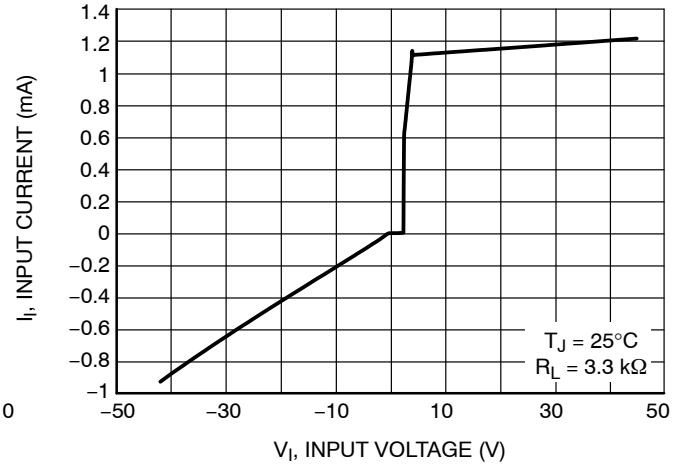

Figure 16. Input Current vs. Input Voltage

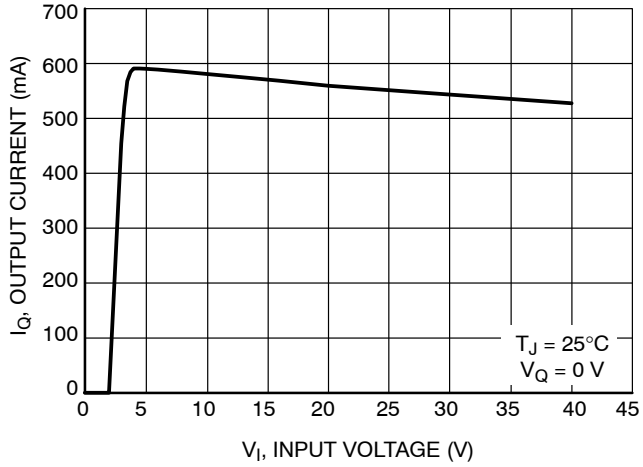

Figure 17. Maximum Output Current vs. Input Voltage

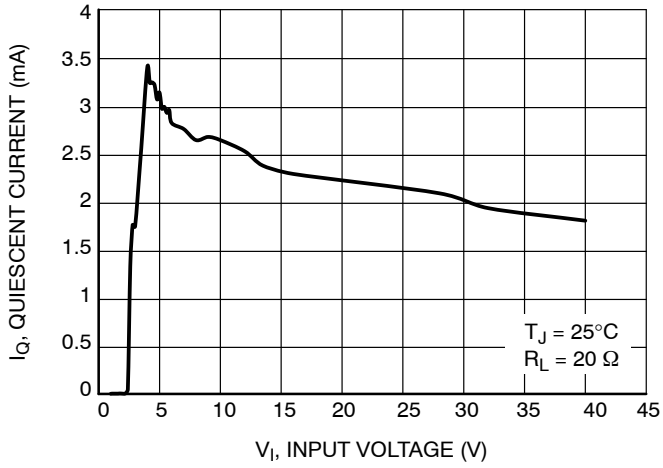

Figure 18. Quiescent Current vs. Input Voltage

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TYPICAL CHARACTERISTIC CURVES – 3.3 V VERSION

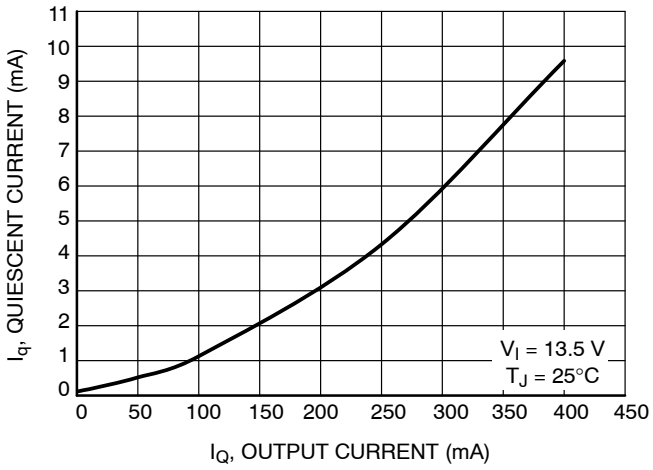

Figure 19. Quiescent Current vs. Output Current (High Load)

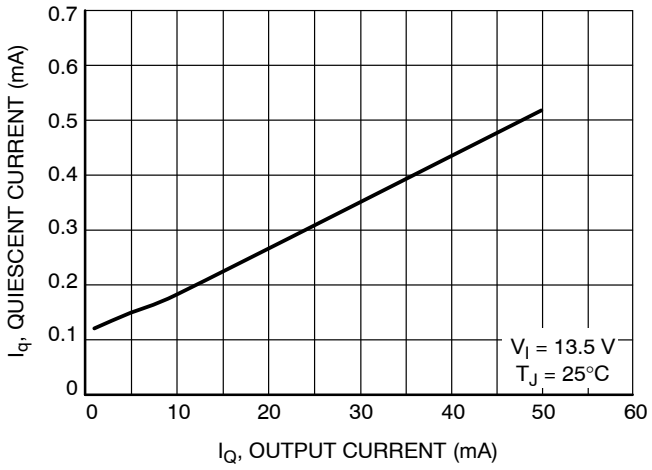

Figure 20. Quiescent Current vs. Output Current (Low Load)

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APPLICATION DESCRIPTION

Output Regulator

The output is controlled by a precision trimmed reference and error amplifier. The PNP output has saturation control for regulation while the input voltage is low, preventing over saturation. Current limit and voltage monitors complement the regulator design to give safe operating signals to the processor and control circuits.

Stability Considerations

The input capacitor C_{I1} in Figure 2 is necessary for compensating input line reactance. Possible oscillations caused by input inductance and input capacitance can be damped by using a resistor of approximately 1 Ω in series with C_{I2}.

The output or compensation capacitor helps determine three main characteristics of a linear regulator: startup delay, load transient response and loop stability.

The capacitor value and type should be based on cost, availability, size and temperature constraints. The aluminum electrolytic capacitor is the least expensive solution, but, if the circuit operates at low temperatures (−25°C to −40°C), both the value and ESR of the capacitor will vary considerably. The capacitor manufacturer's data sheet usually provides this information.

The value for the output capacitor C_Q shown in Figure 2 should work for most applications; however, it is not necessarily the optimized solution. Actual Stability Regions are shown in a graphs in the Typical Performance Characteristics section.

Calculating Power Dissipation in a Single Output Linear Regulator

The maximum power dissipation for a single output regulator (Figure 3) is:

$$P_{D(max)} = [V_{I(max)} - V_{Q(min)}]I_{Q(max)} + V_{I(max)}I_q \quad \text{(eq. 1)}$$

Where:

$V_{I(max)}$ is the maximum input voltage,

$V_{Q(min)}$ is the minimum output voltage,

$I_{Q(max)}$ is the maximum output current for the application, and

I_q is the quiescent current the regulator consumes at $I_{Q(max)}$.

Once the value of $P_{D(max)}$ is known, the maximum permissible value of $R_{\theta JA}$ can be calculated:

$$P_{\theta_{JA}} = \frac{(150\ C - T_A)}{P_D} \quad \text{(eq. 2)}$$

The value of $R_{\theta JA}$ can then be compared with those in the package section of the data sheet. Those packages with $R_{\theta JA}$'s less than the calculated value in Equation 2 will keep the die temperature below 150°C. In some cases, none of the packages will be sufficient to dissipate the heat generated by the IC, and an external heat sink will be required. The current flow and voltages are shown in the Measurement Circuit Diagram.

Heat Sinks

A heat sink effectively increases the surface area of the package to improve the flow of heat away from the IC and into the surrounding air.

Each material in the heat flow path between the IC and the outside environment will have a thermal resistance. Like series electrical resistances, these resistances are summed to determine the value of $R_{\theta JA}$:

$$R_{\theta JA} = R_{\theta JC} + R_{\theta CS} + R_{\theta SA} \quad \text{(eq. 3)}$$

Where:

$R_{\theta JC}$ = the junction−to−case thermal resistance,

$R_{\theta CS}$ = the case−to−heat sink thermal resistance, and

$R_{\theta SA}$ = the heat sink−to−ambient thermal resistance.

$R_{\theta JC}$ appears in the package section of the data sheet. Like $R_{\theta JA}$, it too is a function of package type. $R_{\theta CS}$ and $R_{\theta SA}$ are functions of the package type, heat sink and the interface between them. These values appear in data sheets of heat sink manufacturers.

Thermal, mounting, and heat sinking are discussed in the **onsemi** application note AN1040/D, available on the **onsemi** Website.

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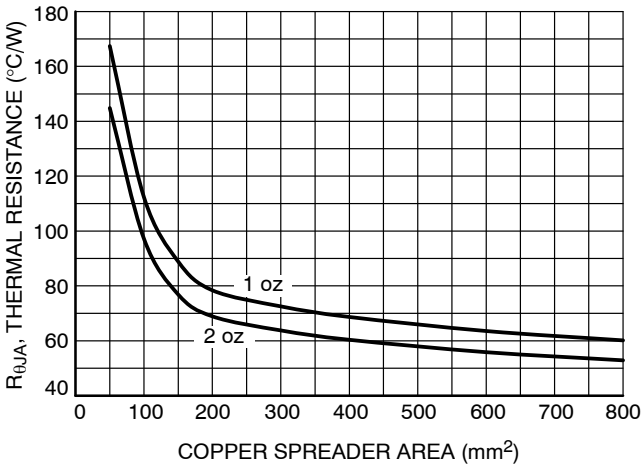

Figure 21. $R_{\theta JA}$ vs. Copper Spreader Area, DPAK 3−Lead

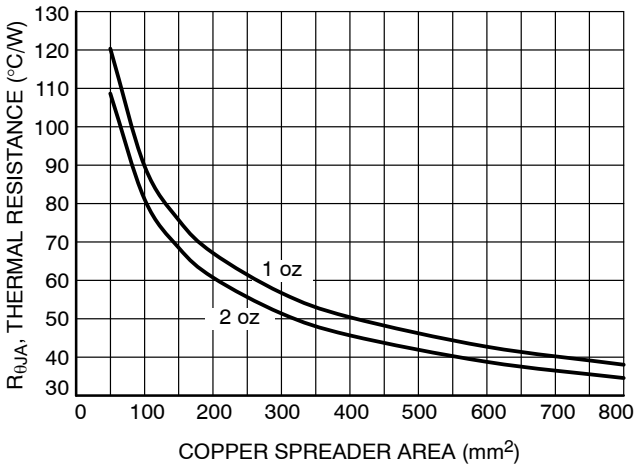

Figure 22. $R_{\theta JA}$ vs. Copper Spreader Area, D^2PAK 3−Lead

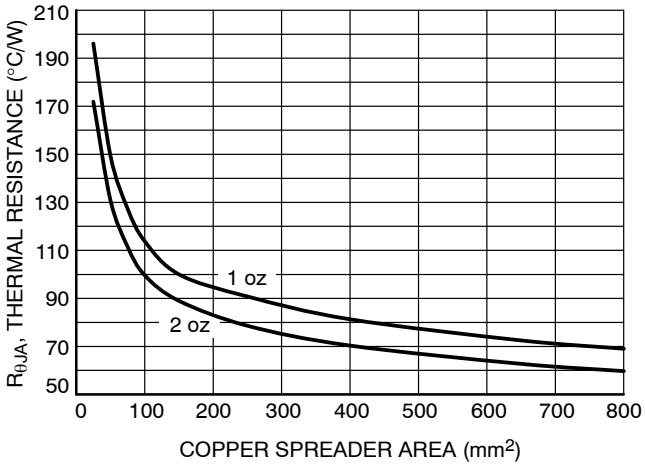

Figure 23. $R_{\theta JA}$ vs. Copper Spreader Area, SOT 223−Lead

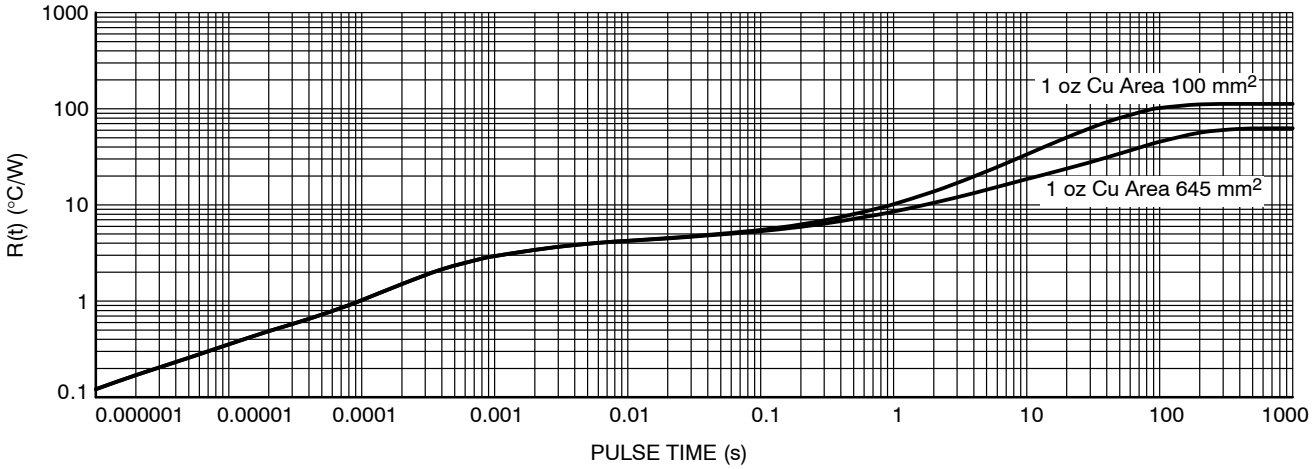

Figure 24. Single−Pulse Heating Curves, DPAK 3−Lead

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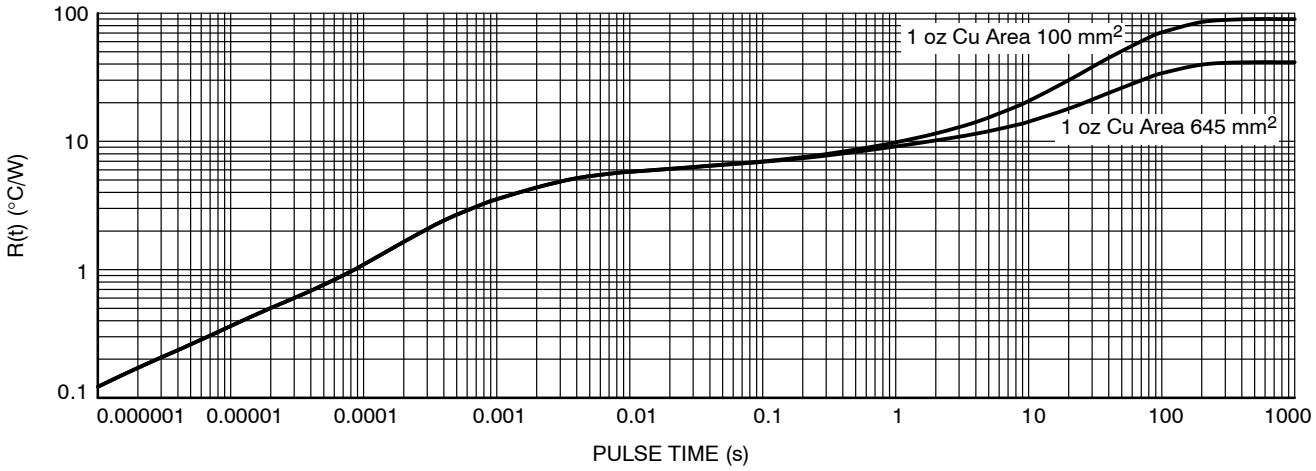

Figure 25. Single−Pulse Heating Curves, D²PAK 3−Lead

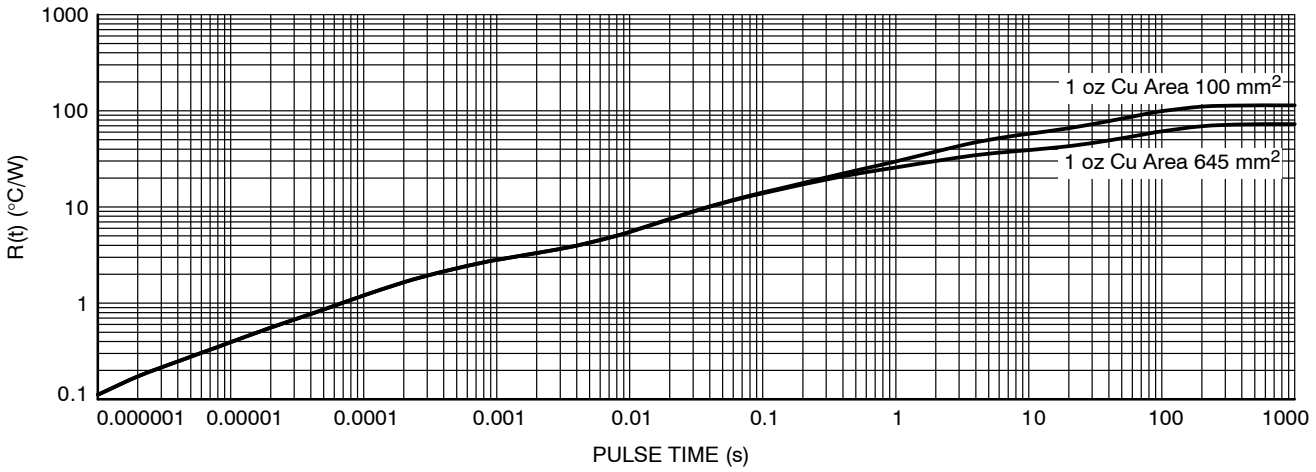

Figure 26. Single−Pulse Heating Curves, SOT 223−Lead

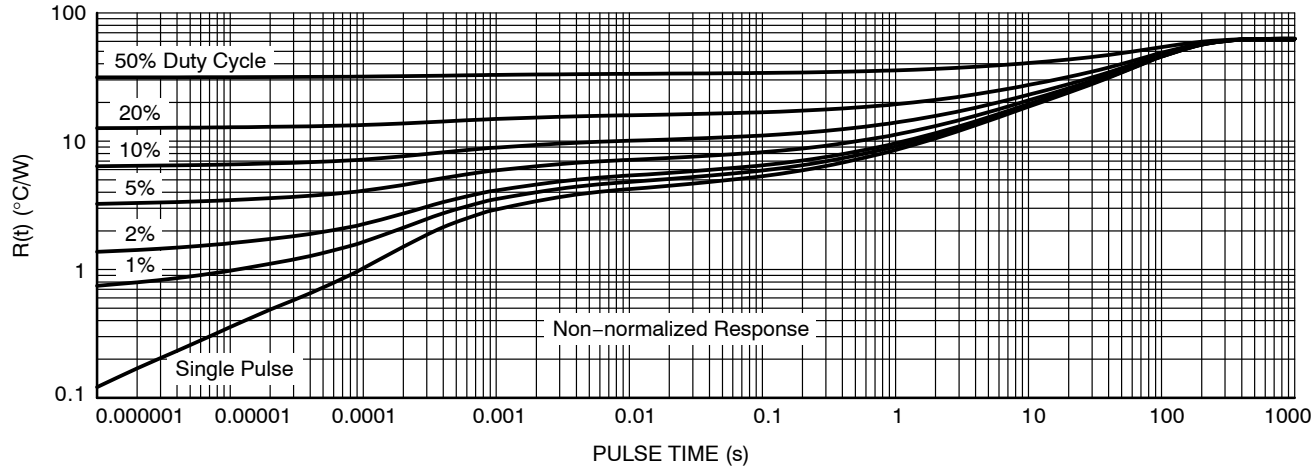

Figure 27. Duty Cycle for 1 inch² (645 mm²) Spreader Board, DPAK 3−Lead

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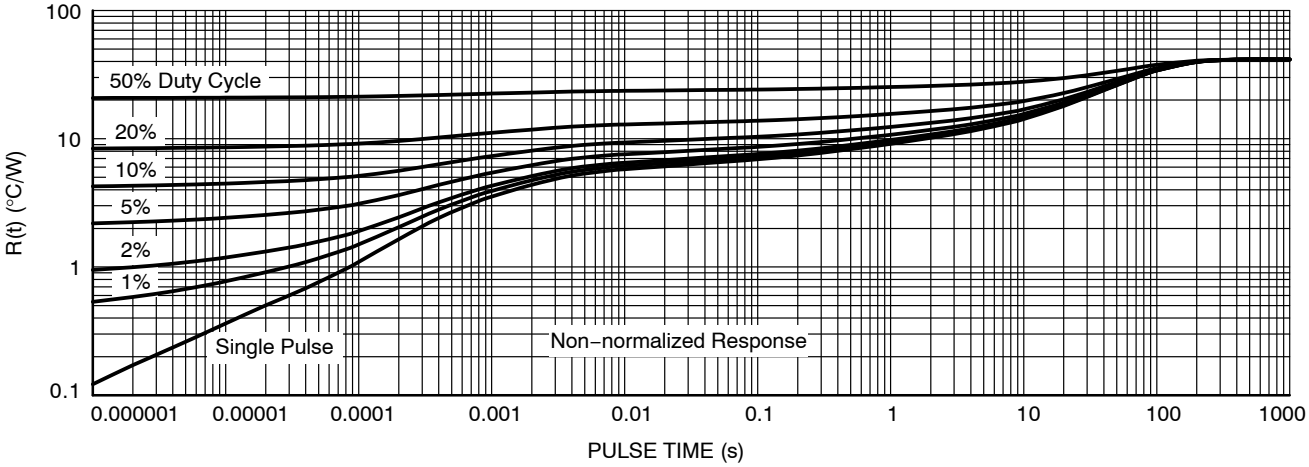

Figure 28. Duty Cycle for 1 inch^2 (645 mm^2) Spreader Board, D^{2}PAK 3−Lead

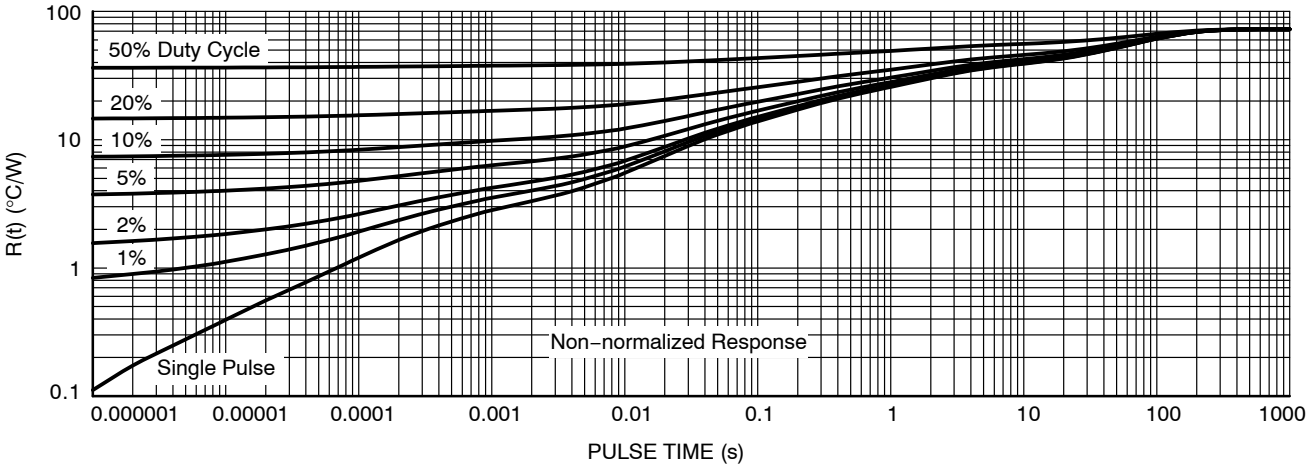

Figure 29. Duty Cycle for 1 inch^2 (645 mm^2) Spreader Board, SOT 223−Lead

ORDERING INFORMATION

Device*	Output Voltage Accuracy	Output Voltage	Package	Shipping†
NCV4274CDT33RKG	2%	3.3 V	DPAK (Pb−Free)	2500 / Tape & Reel
NCV4274CDT50RKG	2%	5.0 V	DPAK (Pb−Free)	2500 / Tape & Reel
NCV4274CST33T3G	2%	3.3 V	SOT−223 (Pb−Free)	4000 / Tape & Reel
NCV4274CST50T3G	2%	5.0 V	SOT−223 (Pb−Free)	4000 / Tape & Reel

DISCONTINUED (Note 5)

NCV4274CDS33R4G	2%	3.3 V	D2PAK (Pb−Free)	800 / Tape & Reel
NCV4274CDS50R4G	2%	5.0 V	D2PAK (Pb−Free)	800 / 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.

*NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC−Q100 Qualified and PPAP Capable.

5. **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 www.onsemi.com.

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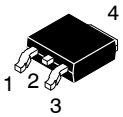
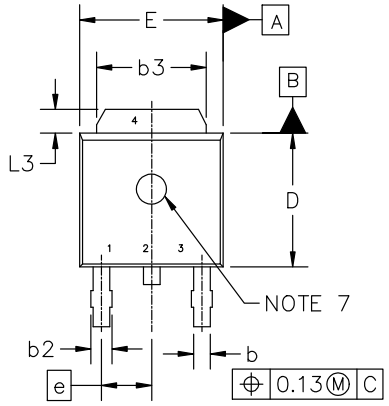
Your Opinion Matters



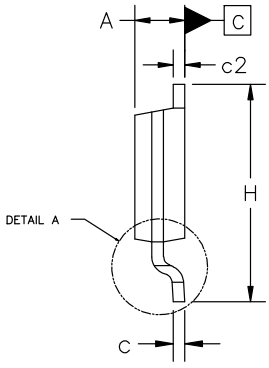
SCALE 1:1

DPAK−3 6.10x6.54x2.28, 2.29P
CASE 369C
ISSUE L

DATE 24 AUG 2026

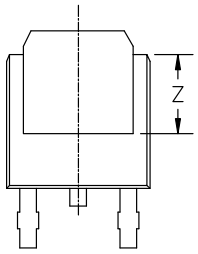


TOP VIEW

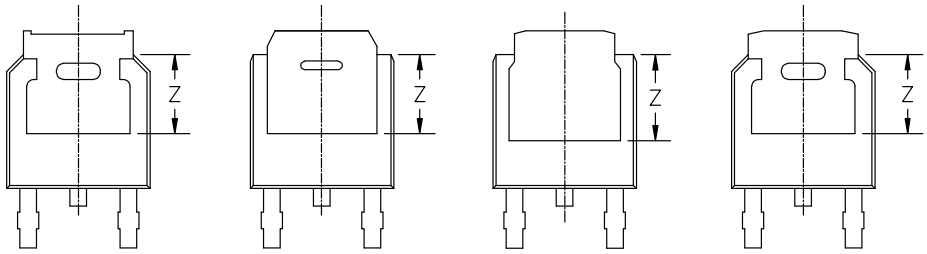


SIDE VIEW

MILLIMETERS			
DIM	MIN	NOM	MAX
A	2.18	2.28	2.38
A1	0.00	−−−	0.13
b	0.63	0.76	0.89
b2	0.72	0.93	1.14
b3	4.57	5.02	5.46
c	0.46	0.54	0.61
c2	0.46	0.54	0.61
D	5.97	6.10	6.22
E	6.35	6.54	6.73
e	2.29 BSC		
H	9.40	9.91	10.41
L	1.40	1.59	1.78
L1	2.90 REF		
L2	0.51 BSC		
L3	0.89	−−−	1.27
L4	−−−	−−−	1.01
Z	3.93	−−−	−−−



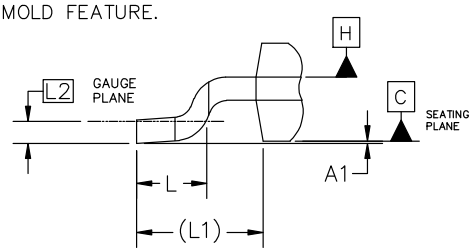
BOTTOM VIEW



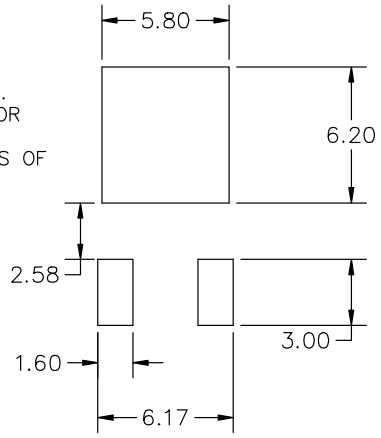
ALTERNATE CONSTRUCTIONS

NOTES:

1. DIMENSIONING AND TOLERANCING ASME Y14.5M, 2018.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS b3, L3, AND Z.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR BURRS.
5. DIMENSIONS D AND E ARE DETERMINED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY.
6. DATUMS A AND B ARE DETERMINED AT DATUM PLANE H.
7. OPTIONAL MOLD FEATURE.



DETAIL A
ROTATED 90° CW



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.

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DESCRIPTION:	**DPAK−3 6.10x6.54x2.28, 2.29P**	**PAGE 1 OF 2**

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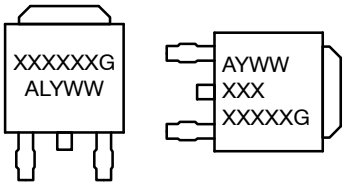
DPAK−3 6.10x6.54x2.28, 2.29P
CASE 369C
ISSUE L

DATE 24 AUG 2026

GENERIC MARKING DIAGRAM*



IC **Discrete**

XXXXXX	= Device Code
A	= Assembly Location
L	= Wafer Lot
Y	= Year
WW	= Work Week
G	= 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.

STYLE 1:
PIN 1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

STYLE 2:
PIN 1. GATE
2. DRAIN
3. SOURCE
4. DRAIN

STYLE 3:
PIN 1. ANODE
2. CATHODE
3. ANODE
4. CATHODE

STYLE 4:
PIN 1. CATHODE
2. ANODE
3. GATE
4. ANODE

STYLE 5:
PIN 1. GATE
2. ANODE
3. CATHODE
4. ANODE

STYLE 6:
PIN 1. MT1
2. MT2
3. GATE
4. MT2

STYLE 7:
PIN 1. GATE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

STYLE 8:
PIN 1. N/C
2. CATHODE
3. ANODE
4. CATHODE

STYLE 9:
PIN 1. ANODE
2. CATHODE
3. RESISTOR ADJUST
4. CATHODE

STYLE 10:
PIN 1. CATHODE
2. ANODE
3. CATHODE
4. ANODE

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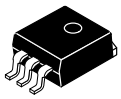
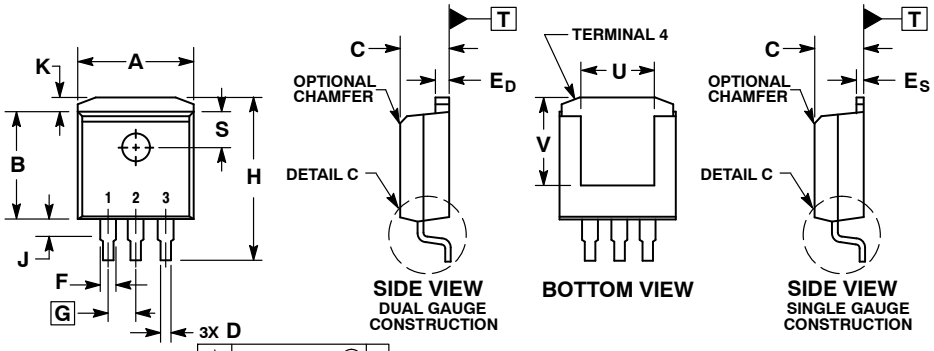
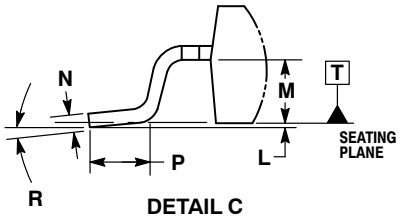


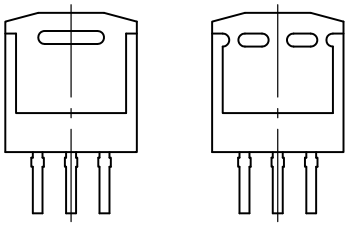
SCALE 1:1

D2PAK
CASE 418AF
ISSUE E

DATE 15 SEP 2015





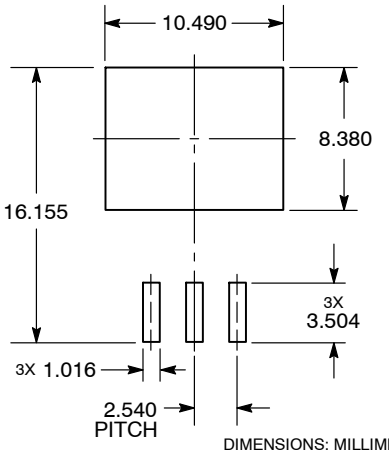


BOTTOM VIEW
OPTIONAL CONSTRUCTIONS

NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCHES.
3. TAB CONTOUR OPTIONAL WITHIN DIMENSIONS A AND K.
4. DIMENSIONS U AND V ESTABLISH A MINIMUM MOUNTING SURFACE FOR TERMINAL 4.
5. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH OR GATE PROTRUSIONS. MOLD FLASH AND GATE PROTRUSIONS NOT TO EXCEED 0.025 (0.635) MAXIMUM.
6. SINGLE GAUGE DESIGN WILL BE SHIPPED AFTER FPCN EXPIRATION IN OCTOBER 2011.

	INCHES		MILLIMETERS	
DIM	MIN	MAX	MIN	MAX
A	0.386	0.403	9.804	10.236
B	0.356	0.368	9.042	9.347
C	0.170	0.180	4.318	4.572
D	0.026	0.036	0.660	0.914
E_D	0.045	0.055	1.143	1.397
E_S	0.018	0.026	0.457	0.660
F	0.051 REF		1.295 REF	
G	0.100 BSC		2.540 BSC	
H	0.539	0.579	13.691	14.707
J	0.125 MAX		3.175 MAX	
K	0.050 REF		1.270 REF	
L	0.000	0.010	0.000	0.254
M	0.088	0.102	2.235	2.591
N	0.018	0.026	0.457	0.660
P	0.058	0.078	1.473	1.981
R	0°	8°	0°	8°
S	0.116 REF		2.946 REF	
U	0.200 MIN		5.080 MIN	
V	0.250 MIN		6.350 MIN	

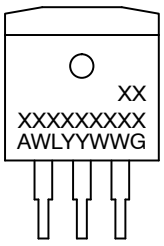
SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

*For additional information on our Pb−Free strategy and soldering details, please download the **onsemi** Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code
A = Assembly Location
WL = Wafer Lot
YY = Year
WW = Work Week
G = Pb−Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb−Free indicator, “G”, may or not be present.

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