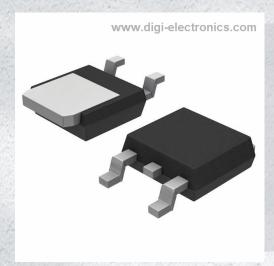


## NTD20N06T4 Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number NTD20N06T4-DG

Manufacturer onsemi

Manufacturer Product Number NTD20N06T4

Description MOSFET N-CH 60V 20A DPAK

Detailed Description N-Channel 60 V 20A (Ta) 1.88W (Ta), 60W (Tj) Surfa

ce Mount DPAK



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



## **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
NTD20N06T4	onsemi
Series:	Product Status:
	Obsolete
FET Type:	Technology:
N-Channel	MOSFET (Metal Oxide)
Drain to Source Voltage (Vdss):	Current - Continuous Drain (Id) @ 25°C:
60 V	20A (Ta)
Drive Voltage (Max Rds On, Min Rds On):	Rds On (Max) @ ld, Vgs:
10V	46mOhm @ 10A, 10V
Vgs(th) (Max) @ ld:	Gate Charge (Qg) (Max) @ Vgs:
4V @ 250μA	30 nC @ 10 V
Vgs (Max):	Input Capacitance (Ciss) (Max) @ Vds:
±20V	1015 pF @ 25 V
FET Feature:	Power Dissipation (Max):
	1.88W (Ta), 60W (Tj)
Operating Temperature:	Mounting Type:
-55°C ~ 175°C (TJ)	Surface Mount
Supplier Device Package:	Package / Case:
DPAK	TO-252-3, DPAK (2 Leads + Tab), SC-63
Base Product Number:	
NTD20	

## **Environmental & Export classification**

8541.29.0095

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	

1



# MOSFET - Power, N-Channel, DPAK

#### 20 A, 60 V

## **NTD20N06, NTDV20N06**

#### Description

Designed for low voltage, high speed switching applications in power supplies, converters and power motor controls and bridge circuits.

#### **Features**

- Lower R<sub>DS(on)</sub>
- Lower V<sub>DS(on)</sub>
- Lower Capacitances
- Lower Total Gate Charge
- Lower and Tighter V<sub>SD</sub>
- Lower Diode Reverse Recovery Time
- Lower Reverse Recovery Stored Charge
- NTDV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free and are RoHS Compliant

#### **Typical Applications**

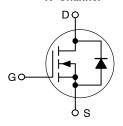
- Power Supplies
- Converters
- Power Motor Controls
- Bridge Circuits

V <sub>(BR)DSS</sub>	R <sub>DS(on)</sub> TYP	I <sub>D</sub> MAX
60 V	37.5 mΩ	20 A

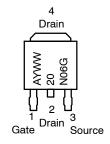


DPAK CASE 369C STYLE 2

#### N-Channel



## MARKING DIAGRAM & PIN ASSIGNMENTS



A = Assembly Location\*
20N06 = Device Code
Y = Year
WW = Work Week
G = Pb-Free Package

\* The Assembly Location code (A) is front side optional. In cases where the Assembly Location is stamped in the package, the front side assembly code may be blank.

#### **ORDERING INFORMATION**

See detailed ordering and shipping information on page 8 of this data sheet.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 8.

#### MAXIMUM RATINGS (T<sub>J</sub> = 25°C unless otherwise noted)

Symbol	Rating	Value	Unit
$V_{DSS}$	Drain-to-Source Voltage	60	Vdc
$V_{DGR}$	Drain-to-Gate Voltage ( $R_{GS}$ = 10 $M\Omega$ )	60	Vdc
	Gate-to-Source Voltage		Vdc
$V_{GS}$	- Continuous	±20	
$V_{GS}$	<ul><li>Non–repetitive (t<sub>p</sub>≤10 ms)</li></ul>	±30	
	Drain Current		Adc
$I_{D}$	− Continuous @ T <sub>A</sub> = 25°C	20	
$I_{D}$	– Continuous @ T <sub>A</sub> = 100°C	10	
$I_{DM}$	– Single Pulse (t <sub>p</sub> ≤10 μs)	60	Apk
$P_{D}$	Total Power Dissipation @ T <sub>A</sub> = 25°C	60	W
	Derate above 25°C	0.40	W/°C
	Total Power Dissipation @ $T_A = 25$ °C (Note 1)	1.88	W
	Total Power Dissipation @ T <sub>A</sub> = 25°C (Note 2)	1.36	W
T <sub>J</sub> , T <sub>stg</sub>	Operating and Storage Temperature Range	-55 to	°C
		175	
E <sub>AS</sub>	Single Pulse Drain-to-Source Avalanche Energy - Starting T <sub>J</sub> = 25°C	170	mJ
	$(V_{DD} = 25 \text{ Vdc}, V_{GS} = 10 \text{ Vdc},$		
	$L = 1.0 \text{ mH}, I_L(pk) = 18.4 \text{ A}, V_{DS} = 60 \text{ Vdc})$		
	Thermal Resistance		°C/W
$R_{ heta JC}$	<ul><li>Junction-to-Case</li></ul>	2.5	
$R_{\theta JA}$	<ul><li>Junction-to-Ambient (Note 1)</li></ul>	80	
$R_{\theta JA}$	<ul><li>Junction-to-Ambient (Note 2)</li></ul>	110	
TL	Maximum Lead Temperature for Soldering Purposes, 1/8" from case for 10 seconds	260	°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. When surface mounted to an FR4 board using the minimum recommended pad size.

2. When surface mounted to an FR4 board using the 0.5 sq in drain pad size.

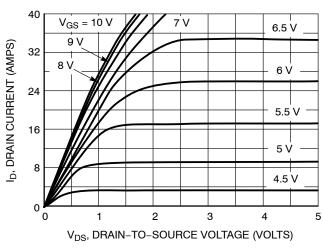
#### **ELECTRICAL CHARACTERISTICS** (T<sub>J</sub> = 25°C unless otherwise noted)

Characteristic			Min	Тур	Max	Unit
OFF CHARACTERISTICS						
Drain-to-Source Breakdown Voltage (Note 3) (V <sub>GS</sub> = 0 Vdc, I <sub>D</sub> = 250 μAdc) Temperature Coefficient (Positive)			60 -	71.7 79.4	- -	Vdc mV/°C
Zero Gate Voltage Drain Current $(V_{DS} = 60 \text{ Vdc}, V_{GS} = 0 \text{ Vdc})$ $(V_{DS} = 60 \text{ Vdc}, V_{GS} = 0 \text{ Vdc}, T_J = 150^{\circ}\text{C})$			- -	- -	1.0 10	μAdc
Gate-Body Leakage Current (V <sub>G</sub>	$_{S}$ = ±20 Vdc, $V_{DS}$ = 0 Vdc)	I <sub>GSS</sub>	-	-	±100	nAdc
ON CHARACTERISTICS (Note 3)						
Gate Threshold Voltage (Note 3) $(V_{DS} = V_{GS}, I_D = 250 \mu Adc)$ Threshold Temperature Coefficie	nt (Negative)	V <sub>GS(th)</sub>	2.0	2.91 6.9	4.0 -	Vdc mV/°C
Static Drain-to-Source On-Resistance (Note 3) (V <sub>GS</sub> = 10 Vdc, I <sub>D</sub> = 10 Adc)			-	37.5	46	mΩ
Static Drain-to-Source On-Voltage (Note 3) $ (V_{GS} = 10 \text{ Vdc}, I_D = 20 \text{ Adc}) $ $ (V_{GS} = 10 \text{ Vdc}, I_D = 10 \text{ Adc}, T_J = 150^{\circ}\text{C}) $				0.78 1.57	1.10 -	Vdc
Forward Transconductance (Note	e 3) (V <sub>DS</sub> = 7.0 Vdc, I <sub>D</sub> = 6.0 Adc)	9FS	-	13.2	-	mhos
OYNAMIC CHARACTERISTICS						
Input Capacitance		C <sub>iss</sub>	-	725	1015	pF
Output Capacitance	(V <sub>DS</sub> = 25 Vdc, V <sub>GS</sub> = 0 Vdc, f = 1.0 MHz)	C <sub>oss</sub>	-	213	300	
Transfer Capacitance	,	C <sub>rss</sub>	-	58	120	
WITCHING CHARACTERISTICS	(Note 4)					
Turn-On Delay Time		t <sub>d(on)</sub>	-	9.5	20	ns
Rise Time	(V <sub>DD</sub> = 30 Vdc, I <sub>D</sub> = 20 Adc, V <sub>GS</sub> = 10 Vdc,	t <sub>r</sub>	-	60.5	120	
Turn-Off Delay Time	$R_{G} = 9.1 \Omega$ (Note 3)	t <sub>d(off)</sub>	-	27.1	60	
Fall Time		t <sub>f</sub>	-	37.1	80	
Gate Charge	0/ 40 V/da 1 00 A da	$Q_T$	-	21.2	30	nC
	(V <sub>DS</sub> = 48 Vdc, I <sub>D</sub> = 20 Adc, V <sub>GS</sub> = 10 Vdc) (Note 3)	Q <sub>1</sub>	-	5.6	-	]
	us , , , ,	$Q_2$	-	7.3	-	
SOURCE-DRAIN DIODE CHARA	CTERISTICS					
Forward On-Voltage	$(I_S = 20 \text{ Adc}, V_{GS} = 0 \text{ Vdc}) \text{ (Note 3)}$ $(I_S = 20 \text{ Adc}, V_{GS} = 0 \text{ Vdc}, T_J = 150^{\circ}\text{C})$	V <sub>SD</sub>	_ _	1.0 0.87	1.2 -	Vdc
Reverse Recovery Time	(1 00 4 1 1 1 0 1 1	t <sub>rr</sub>	_	42.9	-	ns
	(I <sub>S</sub> = 20 Adc, V <sub>GS</sub> = 0 Vdc, dI <sub>S</sub> /dt = 100 A/μs) (Note 3)	t <sub>a</sub>	-	33	-	
	. , , ,	t <sub>b</sub>	-	9.9	-	
Reverse Recovery Stored Charge	<u> </u>	$Q_{RR}$	_	0.084	-	μC

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.

3. Pulse Test: Pulse Width ≤ 300 μs, Duty Cycle ≤ 2%.

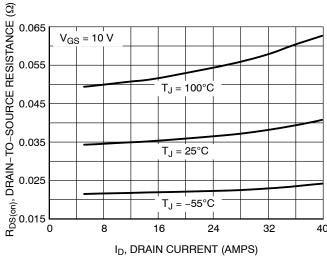
4. Switching characteristics are independent of operating junction temperatures.



40  $V_{DS} \ge 10 \text{ V}$ <sub>D</sub>, DRAIN CURRENT (AMPS) 32 16  $T_J = 25^{\circ}C$  $T_J = 100^{\circ}C$  $T_J = -55^{\circ}C$ 0 **L** 4.2 5 5.8 3.4 6.6 7.4 V<sub>GS</sub>, GATE-TO-SOURCE VOLTAGE (VOLTS)

Figure 1. On-Region Characteristics

Figure 2. Transfer Characteristics



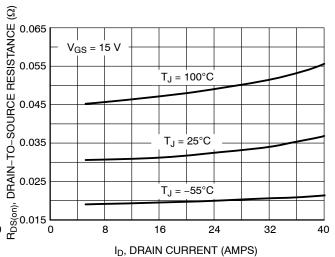
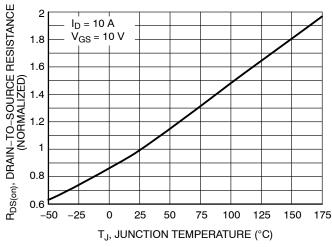


Figure 3. On-Resistance versus Gate-to-Source Voltage

Figure 4. On-Resistance versus Drain Current and Gate Voltage



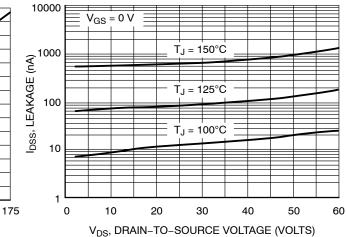


Figure 5. On–Resistance Variation with Temperature

Figure 6. Drain-to-Source Leakage Current versus Voltage

#### **POWER MOSFET SWITCHING**

Switching behavior is most easily modeled and predicted by recognizing that the power MOSFET is charge controlled. The lengths of various switching intervals ( $\Delta t$ ) are determined by how fast the FET input capacitance can be charged by current from the generator.

The published capacitance data is difficult to use for calculating rise and fall because drain–gate capacitance varies greatly with applied voltage. Accordingly, gate charge data is used. In most cases, a satisfactory estimate of average input current  $(I_{G(AV)})$  can be made from a rudimentary analysis of the drive circuit so that

$$t = Q/I_{G(AV)}$$

During the rise and fall time interval when switching a resistive load,  $V_{GS}$  remains virtually constant at a level known as the plateau voltage,  $V_{SGP}$  Therefore, rise and fall times may be approximated by the following:

$$t_r = Q_2 x R_G/(V_{GG} - V_{GSP})$$
  
$$t_f = Q_2 x R_G/V_{GSP}$$

where

 $V_{GG}$  = the gate drive voltage, which varies from zero to  $V_{GG}$  $R_G$  = the gate drive resistance

and Q<sub>2</sub> and V<sub>GSP</sub> are read from the gate charge curve.

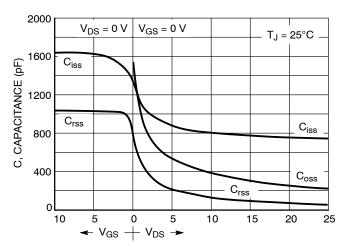
During the turn-on and turn-off delay times, gate current is not constant. The simplest calculation uses appropriate values from the capacitance curves in a standard equation for voltage change in an RC network. The equations are:

$$\begin{split} t_{d(on)} &= R_G \ C_{iss} \ In \ [V_{GG}/(V_{GG} - V_{GSP})] \\ t_{d(off)} &= R_G \ C_{iss} \ In \ (V_{GG}/V_{GSP}) \end{split}$$

The capacitance ( $C_{iss}$ ) is read from the capacitance curve at a voltage corresponding to the off-state condition when calculating  $t_{d(on)}$  and is read at a voltage corresponding to the on-state when calculating  $t_{d(off)}$ .

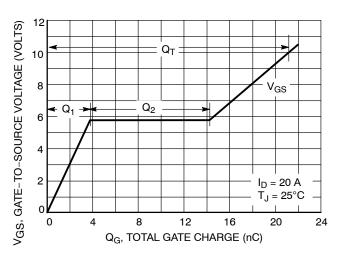
At high switching speeds, parasitic circuit elements complicate the analysis. The inductance of the MOSFET source lead, inside the package and in the circuit wiring which is common to both the drain and gate current paths, produces a voltage at the source which reduces the gate drive current. The voltage is determined by Ldi/dt, but since di/dt is a function of drain current, the mathematical solution is complex. The MOSFET output capacitance also complicates the mathematics. And finally, MOSFETs have finite internal gate resistance which effectively adds to the resistance of the driving source, but the internal resistance is difficult to measure and, consequently, is not specified.

The resistive switching time variation versus gate resistance (Figure 9) shows how typical switching performance is affected by the parasitic circuit elements. If the parasitics were not present, the slope of the curves would maintain a value of unity regardless of the switching speed. The circuit used to obtain the data is constructed to minimize common inductance in the drain and gate circuit loops and is believed readily achievable with board mounted components. Most power electronic loads are inductive; the data in the figure is taken with a resistive load, which approximates an optimally snubbed inductive load. Power MOSFETs may be safely operated into an inductive load; however, snubbing reduces switching losses.



GATE-TO-SOURCE OR DRAIN-TO-SOURCE VOLTAGE (VOLTS)

Figure 7. Capacitance Variation



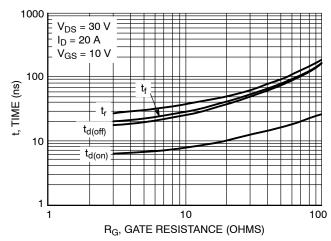


Figure 8. Gate-To-Source and Drain-To-Source
Voltage versus Total Charge

Figure 9. Resistive Switching Time Variation versus Gate Resistance

#### DRAIN-TO-SOURCE DIODE CHARACTERISTICS

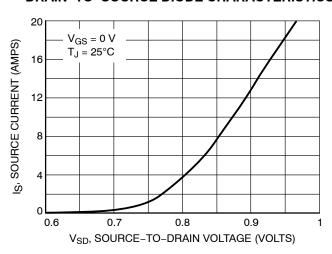


Figure 10. Diode Forward Voltage versus Current

#### SAFE OPERATING AREA

The Forward Biased Safe Operating Area curves define the maximum simultaneous drain-to-source voltage and drain current that a transistor can handle safely when it is forward biased. Curves are based upon maximum peak junction temperature and a case temperature (T<sub>C</sub>) of 25°C. Peak repetitive pulsed power limits are determined by using the thermal response data in conjunction with the procedures discussed in AN569, "Transient Thermal Resistance – General Data and Its Use."

Switching between the off-state and the on-state may traverse any load line provided neither rated peak current ( $I_{DM}$ ) nor rated voltage ( $V_{DSS}$ ) is exceeded and the transition time ( $t_p t_f$ ) do not exceed 10  $\mu$ s. In addition the total power averaged over a complete switching cycle must not exceed ( $T_{J(MAX)} - T_C$ )/( $R_{\theta JC}$ ).

A Power MOSFET designated E-FET can be safely used in switching circuits with unclamped inductive loads. For reliable operation, the stored energy from circuit inductance dissipated in the transistor while in avalanche must be less than the rated limit and adjusted for operating conditions differing from those specified. Although industry practice is to rate in terms of energy, avalanche energy capability is not a constant. The energy rating decreases non–linearly with an increase of peak current in avalanche and peak junction temperature.

Although many E–FETs can withstand the stress of drain–to–source avalanche at currents up to rated pulsed current ( $I_{DM}$ ), the energy rating is specified at rated continuous current ( $I_{D}$ ), in accordance with industry custom. The energy rating must be derated for temperature as shown in the accompanying graph (Figure 12). Maximum energy at currents below rated continuous  $I_{D}$  can safely be assumed to equal the values indicated.

#### **SAFE OPERATING AREA**

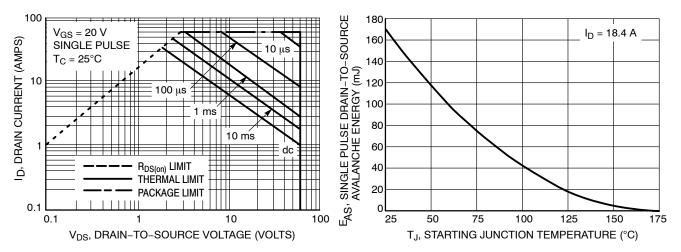


Figure 11. Maximum Rated Forward Biased Safe Operating Area

Figure 12. Maximum Avalanche Energy versus Starting Junction Temperature

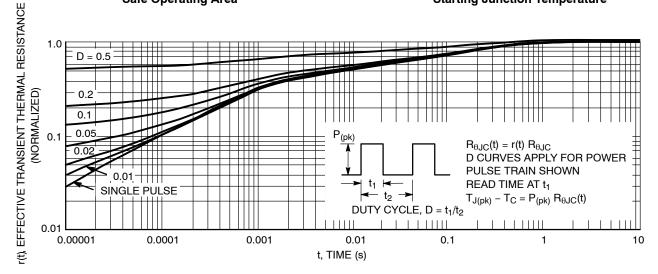


Figure 13. Thermal Response

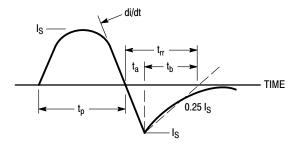


Figure 14. Diode Reverse Recovery Waveform

#### **ORDERING INFORMATION**

Device	Package	Shipping <sup>†</sup>
NTD20N06T4G	DPAK	0500 / Tana & Baal
NTDV20N06T4G-VF01	(Pb-Free)	2500 / Tape & Reel

#### **DISCONTINUED** (Note 5)

NTDV20N06T4G	DPAK (Pb-Free)	2500 / 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.

5. **DISCONTINUED:** This device is not recommended for new design. Please contact your **onsemi** representative for information. The most current information on this device may be available on www.onsemi.com.

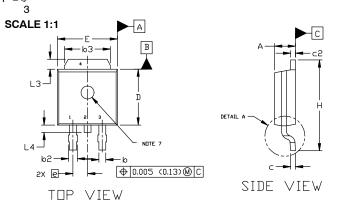


## **MECHANICAL CASE OUTLINE**

## PACKAGE DIMENSIONS

#### **DPAK (SINGLE GAUGE)** CASE 369C **ISSUE G**

**DATE 31 MAY 2023** 

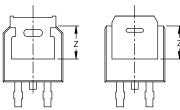


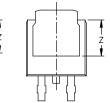
#### NUTES:

- DIMENSIONING AND TOLERANCING ASME Y14.5M, 1994. CONTROLLING DIMENSION: INCHES
- THERMAL PAD CONTOUR OPTIONAL WITHIN DIMENSIONS 63,
- L3. AND Z.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH,
  PROTRUSIONS, OR BURRS. MOLD FLASH, PROTRUSIONS, OR
  GATE BURRS SHALL NOT EXCEED 0.006 INCHES PER SIDE.
- DIMENSIONS D AND E ARE DETERMINED AT THE DUTERMOST EXTREMES OF THE PLASTIC BODY.

  DATUMS A AND B ARE DETERMINED AT DATUM PLANE H.
- OPTIONAL MOLD FEATURE.

DIM	INCHES		MILLIMETERS		
DIM	MIN.	MAX.	MIN.	MAX.	
Α	0.086	0.094	2.18	2.38	
A1	0.000	0.005	0.00	0.13	
ø	0.025	0.035	0.63	0.89	
b2	0.028	0.045	0.72	1.14	
<b>b</b> 3	0.180	0.215	4.57	5.46	
Ū	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	5.29 B2C		
Η	0.370	0.410	9.40	10.41	
L	0.055	0.070	1.40	1.78	
L1	0.114	REF	REF 2.90 RE		
L2	0.020	BSC	0.51	BSC	
Д3	0.035	0.050	0.89	1.27	
L4		0.040	-	1.01	
Z	0.155		3.93		

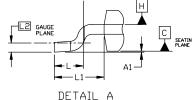




BOTTOM VIEW

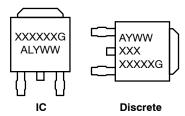
BOTTOM VIEW AL TERNATE CONSTRUCTIONS

5.80 [0.228] 6.20 [0.244] 2.58 3.00 [0.102] [0.118] 1.60 [0.063] 6.17



CW ROTATED 90°

#### **GENERIC MARKING DIAGRAM\***



XXXXXX	= Device Code
Α	= Assembly Location
L	= Wafer Lot
Υ	= Year
WW	= Work Week
G	= Pb-Free Package

RECOMMENDED MOUNTING FOOTPRINT\* \*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DUWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

[0.243]

STYLE 1: PIN 1. BASE STYLE 2: PIN 1. GATE STYLE 3: PIN 1. ANODE STYLE 4: PIN 1. CATHODE STYLE 5: PIN 1. GATE 2. COLLECTOR 2. DRAIN 2. CATHODE 2. ANODE 2. ANODE 3 SOURCE 3 CATHODE 3 FMITTER 3 ANODE 3 GATE COLLECTOR 4. DRAIN 4. CATHODE 4. ANODE ANODE

STYLE 6: STYLE 7: PIN 1. GATE 2. COLLECTOR STYLE 8: STYLE 9: STYLE 10: PIN 1. MT1 2. MT2 PIN 1. N/C 2. CATHODE 3. ANODE PIN 1. ANODE 2. CATHODE PIN 1. CATHODE 2. ANODE 3 CATHODE 3 FMITTER 3 RESISTOR ADJUST 3 GATE 4. COLLECTOR 4. CATHODE 4. ANODE CATHODE

\*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:	98AON10527D	Electronic versions are uncontrolled except when accessed directly from the Document Report Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
DESCRIPTION:	DPAK (SINGLE GAUGE)		PAGE 1 OF 1

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