

NTMD6N02R2 Datasheet



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DiGi Electronics Part Number NTMD6N02R2-DG

Manufacturer onsemi

Manufacturer Product Number NTMD6N02R2

Description MOSFET 2N-CH 20V 3.92A 8SOIC

Detailed Description Mosfet Array 20V 3.92A 730mW Surface Mount 8-SO

IC



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:
NTMD6N02R2	onsemi
Series:	Product Status:
	Obsolete
Technology:	Configuration:
MOSFET (Metal Oxide)	2 N-Channel (Dual)
FET Feature:	Drain to Source Voltage (Vdss):
Logic Level Gate	20V
Current - Continuous Drain (Id) @ 25°C:	Rds On (Max) @ Id, Vgs:
3.92A	35mOhm @ 6A, 4.5V
Vgs(th) (Max) @ Id:	Gate Charge (Qg) (Max) @ Vgs:
1.2V @ 250μA	20nC @ 4.5V
Input Capacitance (Ciss) (Max) @ Vds:	Power - Max:
1100pF @ 16V	730mW
Operating Temperature:	Mounting Type:
-55°C ~ 150°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
8-SOIC (0.154", 3.90mm Width)	8-SOIC
Base Product Number:	
NTMD6	

Environmental & Export classification

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

8541.21.0095

MOSFET – Power, Dual, N-Channel Enhancement Mode, SO-8

6.0 A, 20 V

Features

- Ultra Low R_{DS(on)}
- Higher Efficiency Extending Battery Life
- Logic Level Gate Drive
- Miniature Dual SOIC-8 Surface Mount Package
- Diode Exhibits High Speed, Soft Recovery
- Avalanche Energy Specified
- SOIC-8 Mounting Information Provided
- Pb-Free Package is Available

Applications

- DC-DC Converters
- Low Voltage Motor Control
- Power Management in Portable and Battery-Powered Products, for example, Computers, Printers, Cellular and Cordless Telephones and PCMCIA Cards

MAXIMUM RATINGS (T_J = 25°C unless otherwise noted)

Rating	Symbol	Value	Unit
Drain-to-Source Voltage	V_{DSS}	20	V
Drain-to-Gate Voltage (R _{GS} = 1.0 M Ω)	V_{DGR}	20	V
Gate-to-Source Voltage - Continuous	V_{GS}	±12	V
Thermal Resistance, Junction-to-Ambient (Note 1) Total Power Dissipation @ T _A = 25°C Continuous Drain Current @ T _A = 25°C Continuous Drain Current @ T _A = 70°C Pulsed Drain Current (Note 4)	R _{θJA} P _D I _D I _{DM}	62.5 2.0 6.5 5.5	°C/W W A A
Thermal Resistance, Junction-to-Ambient (Note 2) Total Power Dissipation @ T _A = 25°C Continuous Drain Current @ T _A = 25°C Continuous Drain Current @ T _A = 70°C Pulsed Drain Current (Note 4)	R _{θJA} P _D I _D I _{DM}	102 1.22 5.07 4.07 40	°C/W W A A
Thermal Resistance Junction-to-Ambient (Note 3) Total Power Dissipation @ T _A = 25°C Continuous Drain Current @ T _A = 25°C Continuous Drain Current @ T _A = 70°C Pulsed Drain Current (Note 4)	R _{θJA} P _D I _D I _{DM}	172 0.73 3.92 3.14 30	°C/W W A A

- 1. Mounted onto a 2 in square FR-4 Board
- (1 in sq. 2 oz. Cu 0.06 in thick single sided), t < 10 seconds. 2. Mounted onto a 2 in square FR-4 Board
- (1 in sq. 2 oz. Cu 0.06 in thick single sided), t = steady state.

 3. Minimum FR-4 or G-10 PCB, t = steady state.
- 4. Pulse Test: Pulse Width = 10 μs, Duty Cycle = 2%.

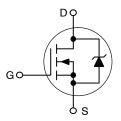


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V _{DSS}	R _{DS(ON)} TYP	I _D MAX
20 V	$35 \text{ m}\Omega$ @ $V_{GS} = 4.5 \text{ V}$	6.0 A

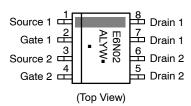
N-Channel





SOIC-8 CASE 751 STYLE 11

MARKING DIAGRAM & PIN ASSIGNMENT



E6N02 = Specific Device Code A = Assembly Location

Y = Year
WW = Work Week
= Pb-Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping [†]
NTMD6N02R2	SOIC-8	2500/Tape & Reel
NTMD6N02R2G	SOIC-8 (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 Specification Brochure, BRD8011/D.

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

Rating	Symbol	Value	Unit
Operating and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C
Single Pulse Drain-to-Source Avalanche Energy – Starting T_J = 25°C (V_{DD} = 20 Vdc, V_{GS} = 5.0 Vdc, Peak I_L = 6.0 Apk, L = 20 mH, R_G = 25 Ω)	E _{AS}	360	mJ
Maximum Lead Temperature for Soldering Purposes for 10 seconds	TL	260	°C

Symbol

g_{FS}

Min

Тур

0.033

0.035

10

0.048

0.049

Mhos

Max

Unit

ELECTRICAL CHARACTERISTICS ($T_C = 25^{\circ}C$ unless otherwise noted) (Note 5) Characteristic

	,		1 ''		
OFF CHARACTERISTICS					
Drain-to-Source Breakdown Voltage	V _{(BR)DSS}				Vdc
$(V_{GS} = 0 \text{ Vdc}, I_D = 250 \mu Adc)$		20	_	_	
Temperature Coefficient (Positive)		-	19.2	-	mV/°C
Zero Gate Voltage Drain Current	I _{DSS}				μAdc
$(V_{DS} = 20 \text{ Vdc}, V_{GS} = 0 \text{ Vdc}, T_{J} = 25^{\circ}\text{C})$		-	_	1.0	
$(V_{DS} = 20 \text{ Vdc}, V_{GS} = 0 \text{ Vdc}, T_{J} = 125^{\circ}\text{C})$		_	_	10	
Gate-Body Leakage Current (V _{GS} = +12 Vdc, V _{DS} = 0 Vdc)	I _{GSS}	-	-	100	nAdc
Gate-Body Leakage Current (V _{GS} = -12 Vdc, V _{DS} = 0 Vdc)	I _{GSS}	-	-	-100	nAdc
ON CHARACTERISTICS					
Gate Threshold Voltage	V _{GS(th)}				Vdc
$(V_{DS} = V_{GS}, I_{D} = -250 \mu\text{Adc})$, ,	0.6	0.9	1.2	
Temperature Coefficient (Negative)		-	-3.0	-	mV/°C
Static Drain-to-Source On-State Resistance	R _{DS(on)}				Ω
$(V_{GS} = 4.5 \text{ Vdc}, I_D = 6.0 \text{ Adc})$	25(6)	_	0.028	0.035	
$(V_{GS} = 4.5 \text{ Vdc}, I_D = 4.0 \text{ Adc})$		_	0.028	0.043	

DYNAMIC CHARACTERISTICS

 $(V_{GS} = 2.7 \text{ Vdc}, I_D = 2.0 \text{ Adc})$

 $(V_{GS} = 2.5 \text{ Vdc}, I_D = 3.0 \text{ Adc})$

Input Capacitance		C _{iss}	-	785	1100	pF
Output Capacitance	$(V_{DS} = 16 \text{ Vdc}, V_{GS} = 0 \text{ Vdc}, \\ f = 1.0 \text{ MHz})$	C _{oss}	_	260	450	
Reverse Transfer Capacitance	,	C _{rss}	-	75	180	

SWITCHING CHARACTERISTICS (Notes 6 and 7)

Forward Transconductance ($V_{DS} = 12 \text{ Vdc}$, $I_D = 3.0 \text{ Adc}$)

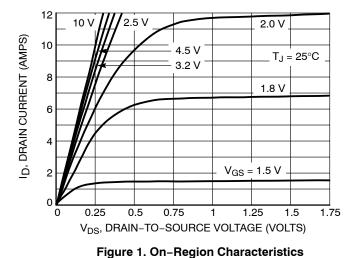
Turn-On Delay Time		t _{d(on)}	-	12	20	ns
Rise Time	$(V_{DD} = 16 \text{ Vdc}, I_D = 6.0 \text{ Adc},$	t _r	_	50	90	1
Turn-Off Delay Time	V_{GS} = 4.5 Vdc, R_G = 6.0 Ω)	t _{d(off)}	_	45	75	1
Fall Time	<i>a ,</i>	t _f	-	80	130	1
Turn-On Delay Time		t _{d(on)}	-	11	18	ns
Rise Time	$(V_{DD} = 16 \text{ Vdc}, I_D = 4.0 \text{ Adc},$	t _r	-	35	65	1
Turn-Off Delay Time	$V_{GS} = 4.5 \text{ Vdc},$ $R_G = 6.0 \Omega)$	t _{d(off)}	-	45	75	
Fall Time	1	t _f	_	60	110	
Total Gate Charge	(V _{DS} = 16 Vdc,	Q _{tot}	-	12	20	nC
Gate-Source Charge	$V_{GS} = 10 \text{ Vdc},$ $V_{GS} = 4.5 \text{ Vdc},$ $I_{D} = 6.0 \text{ Adc})$	Q _{gs}	-	1.5	-	1
Gate-Drain Charge		Q_{gd}	_	4.0	-	1

- 5. Handling precautions to protect against electrostatic discharge is mandatory
 6. Indicates Pulse Test: Pulse Width = 300 μs max, Duty Cycle = 2%.
- 7. Switching characteristics are independent of operating junction temperature.

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted) (continued) (Note 8)

C	Characteristic		Min	Тур	Max	Unit
ODY-DRAIN DIODE RATINGS (Note 9)					
Diode Forward On-Voltage		V _{SD}	- - -	0.83 0.88 0.75	1.1 1.2 -	Vdc
Reverse Recovery Time		t _{rr}	-	30	-	ns
	$(I_S = 6.0 \text{ Adc}, V_{GS} = 0 \text{ Vdc},$ $dI_S/dt = 100 \text{ A/us})$	ta	-	15	-	
		t _b	-	15	-	
Reverse Recovery Stored Charge		Q _{RR}	-	0.02	_	μС

- 8. Handling precautions to protect against electrostatic discharge is mandatory.
- 9. Indicates Pulse Test: Pulse Width = 300 μs max, Duty Cycle = 2%.



12 $V_{DS} \ge 10 \text{ V}$ DRAIN CURRENT (AMPS) 8 6 25°C 100°C ث 2 $T_{.1} = -55^{\circ}C$ 0 0.5 1.5 2 2.5 V_{GS}, GATE-TO-SOURCE VOLTAGE (VOLTS)

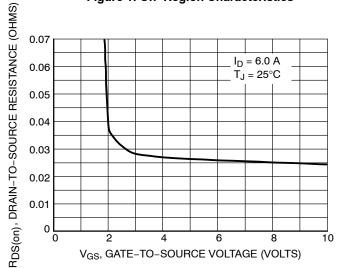


Figure 2. Transfer Characteristics

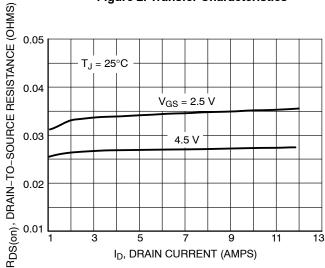


Figure 3. On-Resistance versus Gate-To-Source Voltage

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

I_D, DRAIN CURRENT (AMPS)

0.05

T_J = 25°C

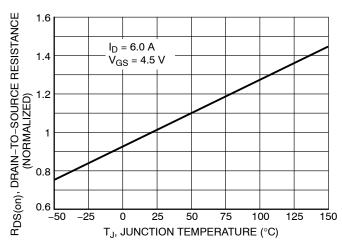


Figure 5. On–Resistance Variation with Temperature

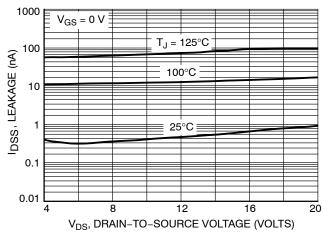
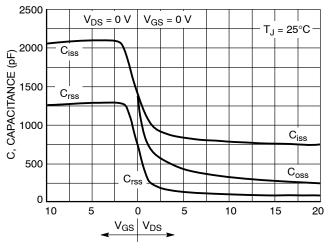
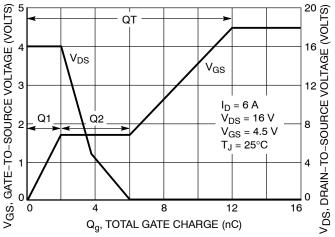


Figure 6. Drain-To-Source Leakage Current versus Voltage





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

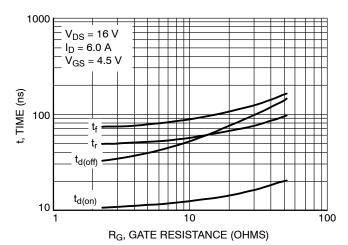
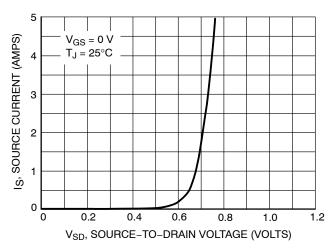


Figure 9. Resistive Switching Time Variation versus Gate Resistance

DRAIN-TO-SOURCE DIODE CHARACTERISTICS



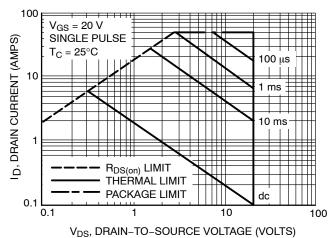


Figure 10. Diode Forward Voltage versus Current

Figure 11. Maximum Rated Forward Biased Safe Operating Area

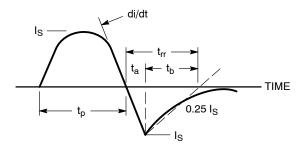


Figure 12. Diode Reverse Recovery Waveform

TYPICAL ELECTRICAL CHARACTERISTICS

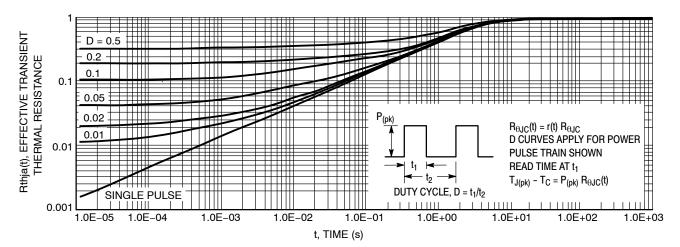


Figure 13. Thermal Response



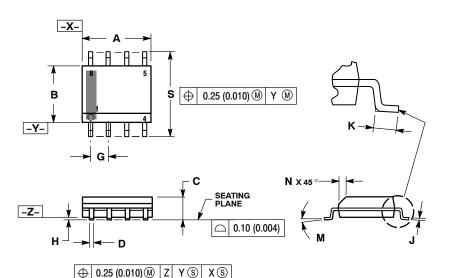
MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



SOIC-8 NB CASE 751-07 **ISSUE AK**

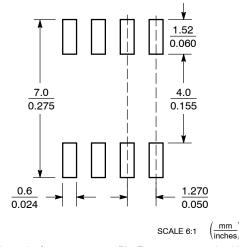
DATE 16 FEB 2011



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER
- ANSI Y14.5M, 1982. CONTROLLING DIMENSION: MILLIMETER.
- DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.
- MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE
- DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.
- 751-01 THRU 751-06 ARE OBSOLETE. NEW STANDARD IS 751-07.

	MILLIMETERS INCHES		HES	
DIM	MIN	MAX	MIN	MAX
Α	4.80	5.00	0.189	0.197
В	3.80	4.00	0.150	0.157
С	1.35	1.75	0.053	0.069
D	0.33	0.51	0.013	0.020
G	1.27	7 BSC	0.05	0 BSC
Н	0.10	0.25	0.004	0.010
J	0.19	0.25	0.007	0.010
K	0.40	1.27	0.016	0.050
М	0 °	8 °	0 °	8 °
N	0.25	0.50	0.010	0.020
S	5.80	6.20	0.228	0.244

SOLDERING FOOTPRINT*



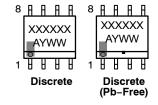
^{*}For additional information on our Pb-Free strategy and soldering details, please download the onsemi Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code = Assembly Location = Wafer Lot = Year

= Work Week = Pb-Free Package



XXXXXX = Specific Device Code = Assembly Location Α

ww = Work Week = 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.

STYLES ON PAGE 2

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DATE 16 FEB 2011

STYLE 1: PIN 1. EMITTER 2. COLLECTOR 3. COLLECTOR 4. EMITTER 5. EMITTER 6. BASE 7. BASE 8. EMITTER	STYLE 2: PIN 1. COLLECTOR, DIE, #1 2. COLLECTOR, #1 3. COLLECTOR, #2 4. COLLECTOR, #2 5. BASE, #2 6. EMITTER, #2 7. BASE, #1 8. EMITTER, #1	STYLE 3: PIN 1. DRAIN, DIE #1 2. DRAIN, #1 3. DRAIN, #2 4. DRAIN, #2 5. GATE, #2 6. SOURCE, #2 7. GATE, #1 8. SOURCE, #1	STYLE 4: PIN 1. ANODE 2. ANODE 3. ANODE 4. ANODE 5. ANODE 6. ANODE 7. ANODE 8. COMMON CATHODE
STYLE 5: PIN 1. DRAIN 2. DRAIN 3. DRAIN 4. DRAIN 5. GATE 6. GATE 7. SOURCE 8. SOURCE	STYLE 6: PIN 1. SOURCE 2. DRAIN 3. DRAIN 4. SOURCE 5. SOURCE 6. GATE 7. GATE 8. SOURCE	PIN 1. INPUT 2. EXTERNAL BYPASS 3. THIRD STAGE SOURCE 4. GROUND 5. DRAIN 6. GATE 3 7. SECOND STAGE Vd 8. FIRST STAGE Vd	PIN 1. COLLECTOR, DIE #1 2. BASE, #1
STYLE 9: PIN 1. EMITTER, COMMON 2. COLLECTOR, DIE #1 3. COLLECTOR, DIE #2 4. EMITTER, COMMON 5. EMITTER, COMMON 6. BASE, DIE #2 7. BASE, DIE #1 8. EMITTER, COMMON	STYLE 10: PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND 5. GROUND 6. BIAS 2 7. INPUT 8. GROUND	STYLE 11: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2 5. DRAIN 2 6. DRAIN 2 7. DRAIN 1	STYLE 12: PIN 1. SOURCE 2. SOURCE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. DRAIN 9. DRAIN
STYLE 13: PIN 1. N.C. 2. SOURCE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. DRAIN 8. DRAIN	STYLE 14: PIN 1. N-SOURCE 2. N-GATE 3. P-SOURCE 4. P-GATE 5. P-DRAIN 6. P-DRAIN 7. N-DRAIN 8. N-DRAIN	STYLE 15: PIN 1. ANODE 1 2. ANODE 1 3. ANODE 1 4. ANODE 1 5. CATHODE, COMMON 6. CATHODE, COMMON 7. CATHODE, COMMON 8. CATHODE, COMMON	STYLE 16: PIN 1. EMITTER, DIE #1 2. BASE, DIE #1 3. EMITTER, DIE #2 4. BASE, DIE #2 5. COLLECTOR, DIE #2 6. COLLECTOR, DIE #2 7. COLLECTOR, DIE #1 8. COLLECTOR, DIE #1
STYLE 17: PIN 1. VCC 2. V2OUT 3. V1OUT 4. TXE 5. RXE 6. VEE 7. GND 8. ACC	STYLE 18: PIN 1. ANODE 2. ANODE	STYLE 19: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2 5. DRAIN 2 6. MIRROR 2	STYLE 20: PIN 1. SOURCE (N) 2. GATE (N) 3. SOURCE (P) 4. GATE (P) 5. DRAIN 6. DRAIN
3. V10UT 4. TXE 5. RXE 6. VEE 7. GND 8. ACC STYLE 21: PIN 1. CATHODE 1 2. CATHODE 2 3. CATHODE 3 4. CATHODE 4 5. CATHODE 5 6. COMMON ANODE 7. COMMON ANODE 8. CATHODE 6	STYLE 22:	7. DRAIN 1 8. MIRROR 1 8. TYLE 23: PIN 1. LINE 1 IN 2. COMMON ANODE/GND 3. COMMON ANODE/GND 4. LINE 2 IN 5. LINE 2 OUT 6. COMMON ANODE/GND 7. COMMON ANODE/GND 8. LINE 1 OUT	STYLE 24: PIN 1. BASE 2. EMITTER 3. COLLECTOR/ANODE 4. COLLECTOR/ANODE 5. CATHODE 6. CATHODE 7. COLLECTOR/ANODE 8. COLLECTOR/ANODE
STYLE 25: PIN 1. VIN 2. N/C 3. REXT 4. GND 5. IOUT 6. IOUT 7. IOUT 8. IOUT	STYLE 26: PIN 1. GND 2. dv/dt 3. ENABLE 4. ILIMIT 5. SOURCE 6. SOURCE 7. SOURCE 8. VCC	STYLE 27: PIN 1. ILIMIT 2. OVLO 3. UVLO 4. INPUT+ 5. SOURCE 6. SOURCE 7. SOURCE 8. DRAIN	STYLE 28: PIN 1. SW_TO_GND 2. DASIC_OFF 3. DASIC_SW_DET 4. GND 5. V_MON 6. VBULK 7. VBULK 8. VIN
STYLE 29: PIN 1. BASE, DIE #1 2. EMITTER, #1 3. BASE, #2 4. EMITTER, #2 5. COLLECTOR, #2 6. COLLECTOR, #2 7. COLLECTOR, #1 8. COLLECTOR, #1	STYLE 30: PIN 1. DRAIN 1 2. DRAIN 1 3. GATE 2 4. SOURCE 2 5. SOURCE 1/DRAIN 2 6. SOURCE 1/DRAIN 2 7. SOURCE 1/DRAIN 2 8. GATE 1		

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