

BRD4N65A

Rev.A Aug.-2026

/ Descriptions

TO-252 N MOS

N-CHANNEL MOSFET in a TO-252 Plastic Package.

/ Features

$V_{DS} = 650V$ $I_D = 4A$ ($V_{GS} = \pm 30V$)

$R_{DS(ON)}@10V \leq 2.5\Omega$ (Typ. 2.15Ω)

HF Product.

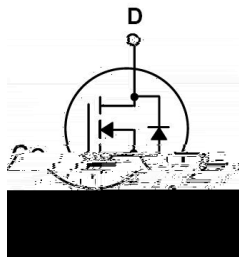
/ Applications

(UPS)

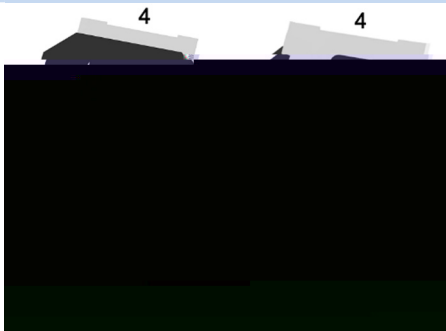
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Switch Mode Power Supply, Uninterruptible Power Supply (UPS), TV Power, Adapter/Charger.

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

/ Marking

See Marking Instructions.

BRD4N65A

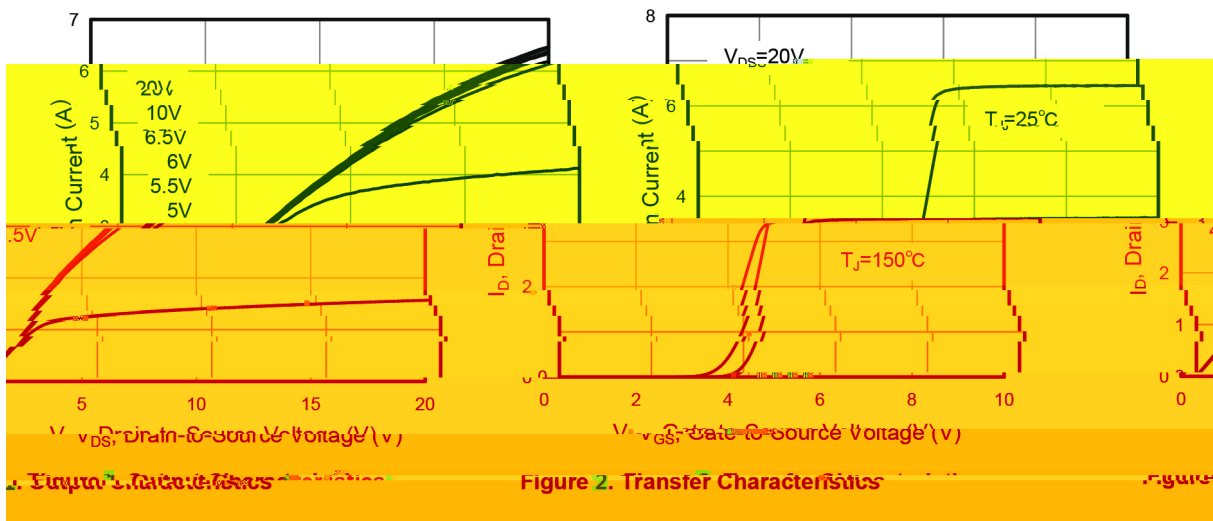
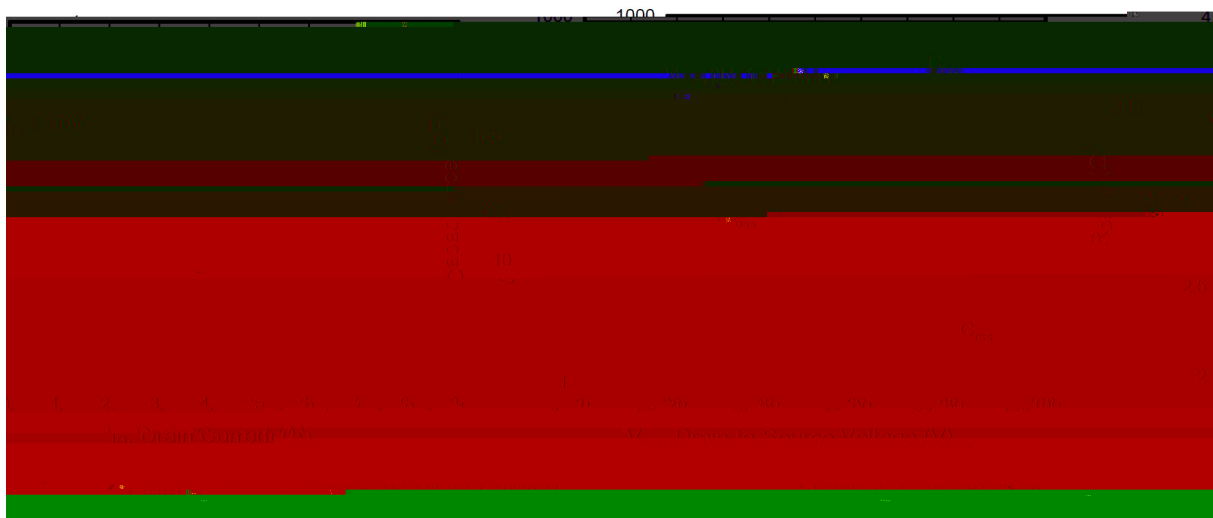
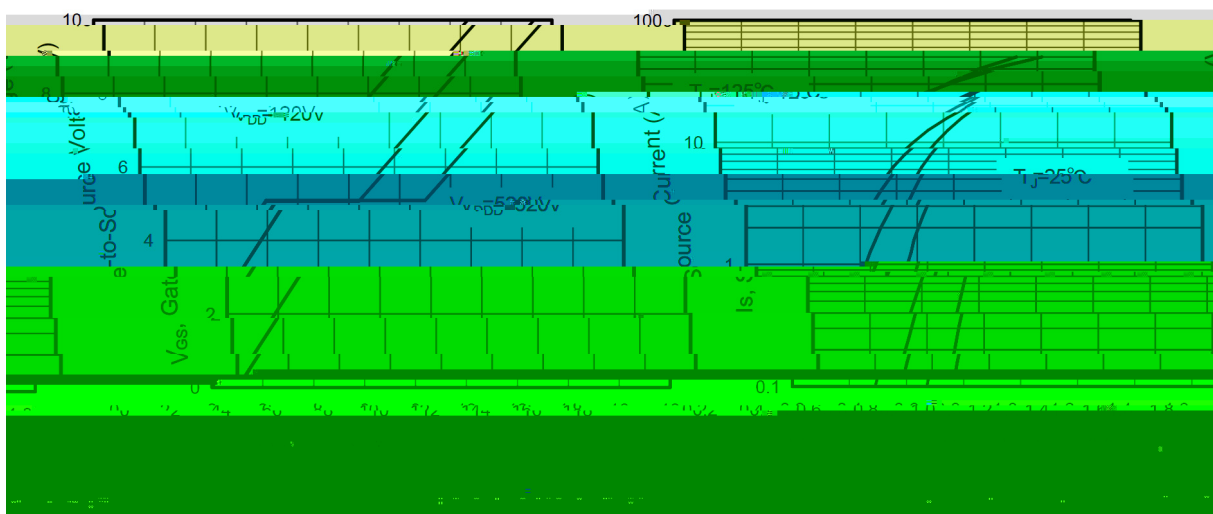
Rev.A Aug.-2026

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	650	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	4.0	A
Drain Current	$I_D(T_c=100^\circ\text{C})$	2.5	A
Drain Current - Pulsed	I_{DM}	16	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	288	mJ
Continuous Diode Forward Current	I_{S}	4	A
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	83	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	
Junction to Ambient	$R_{\theta JA}$	62	/W
Junction to Case	$R_{\theta JC}$	1.5	/W

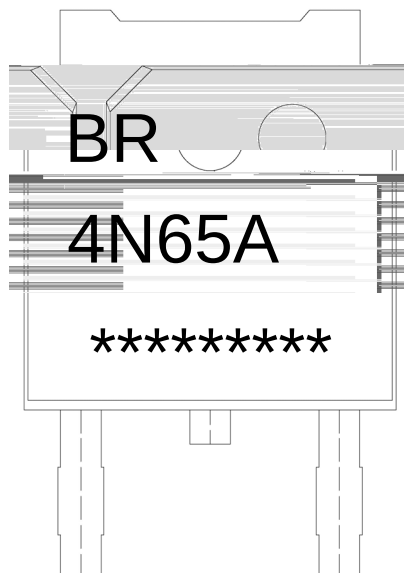
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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BRD4N65A

/ Electrical Characteristic Curve



/ Marking Instructions



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Note:

BR:

Company Code

4N65A:

Product Type Code

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Lot No. Code, code change with Lot No.

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