

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



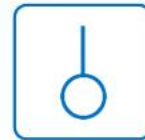
MOS



LDO



Diode



Sensor



DC-DC

Product Specification

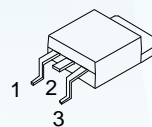
▶ Domestic	Part Number	4N65L
▶ Overseas	Part Number	4N65L
▶ Equivalent	Part Number	4N65L

EV is the abbreviation of name EVVO

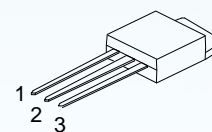
4N65L

■ MOSFET(N-Channel)

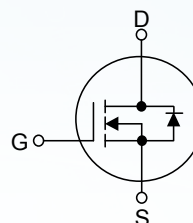
TO-251/252



TO-252



TO-251



1. Gate
2. Drain
3. Source

■ FEATURES

Robust High Voltage Termination
 Avalanche Energy Specified
 Source-to-Drain Diode Recovery Time Comparable to a Discrete
 Fast Recovery Diode
 Diode is Characterized for Use in Bridge Circuits

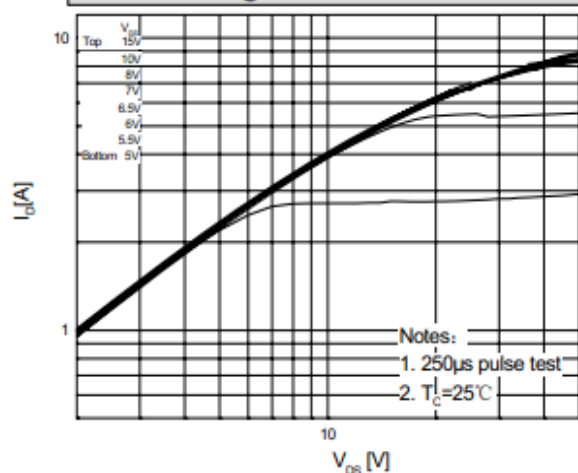
■ MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{DS}	Drain-Source voltage	650	V
V _{GS}	Gate-Source voltage	±30	V
I _D	Drain current-Continuous	4	A
P _D	Maximum Power Dissipation	2	W
E _{AS}	Single pulse avalanche energy	200	mJ
T _J , T _{stg}	Operating Junction and Storage Temperature Range	-55-150	°C

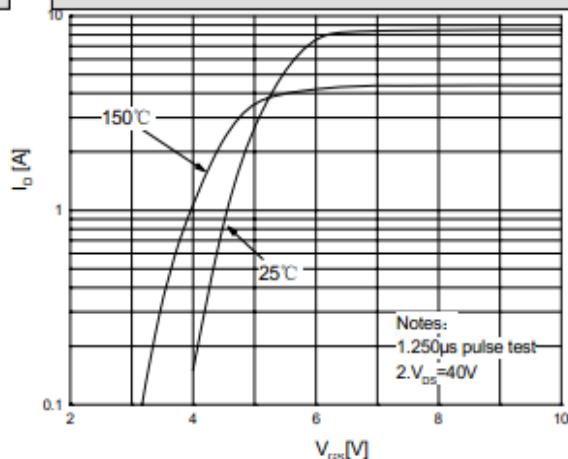
■ ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =250uA	650			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =650V, V _{GS} =0V			10	uA
Gate-body Leakage	I _{GSS}	V _{DS} =0V, V _{GS} =±30V			±100	nA
Gate-Threshold Voltage	V _{th(GS)}	V _{DS} = V _{GS} , I _D =250 uA	2		4	V
Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} =10V, I _D =2A			2.8	Ω
Diode Forward Voltage(Note3)	V _{SD}	V _{GS} =0V, I _D =4A			1.5	V
Input Capacitance	C _{iss}	V _{DS} =25V, V _{GS} =0V, f=1MHz		710	920	pF
Output Capacitance	C _{oss}			65	858	
Reverse Transfer Capacitance	C _{rss}			14	19	

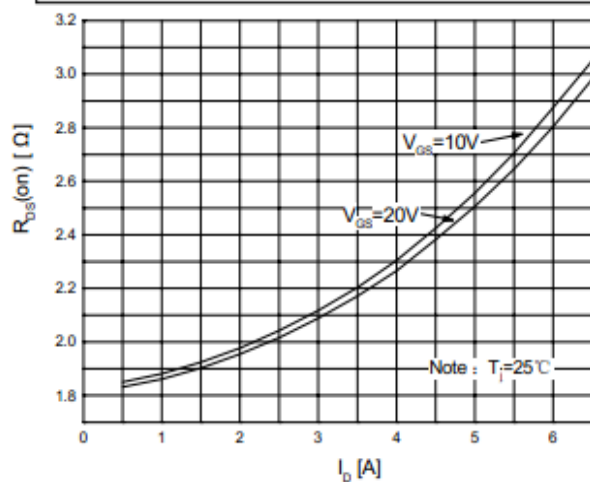
On-Region Characteristics



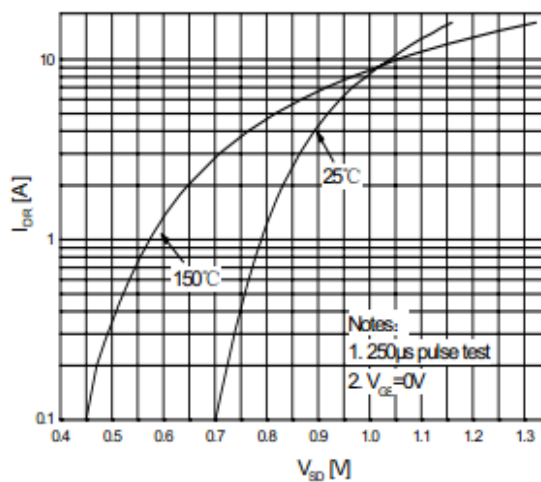
Transfer Characteristics



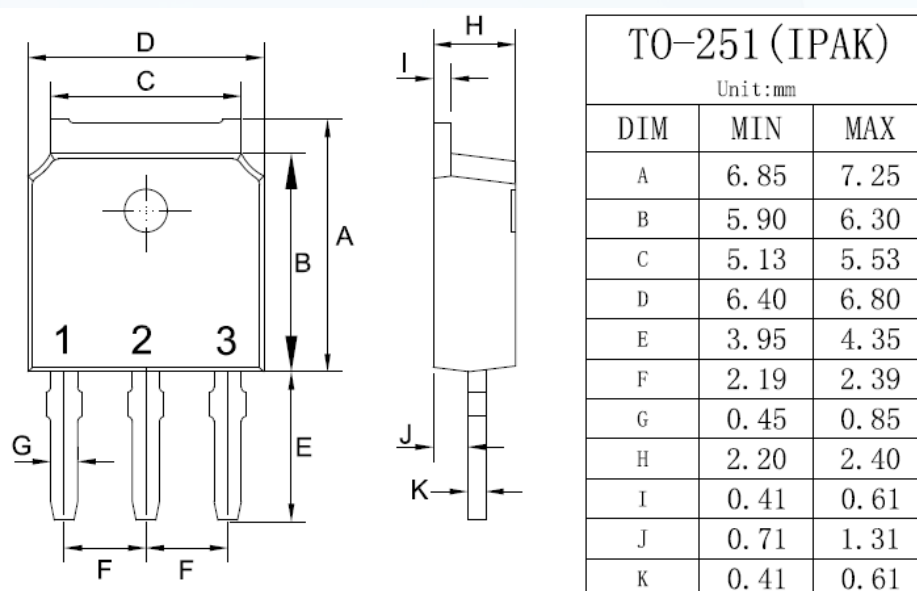
On-Resistance Variation vs. Drain Current and Gate Voltage



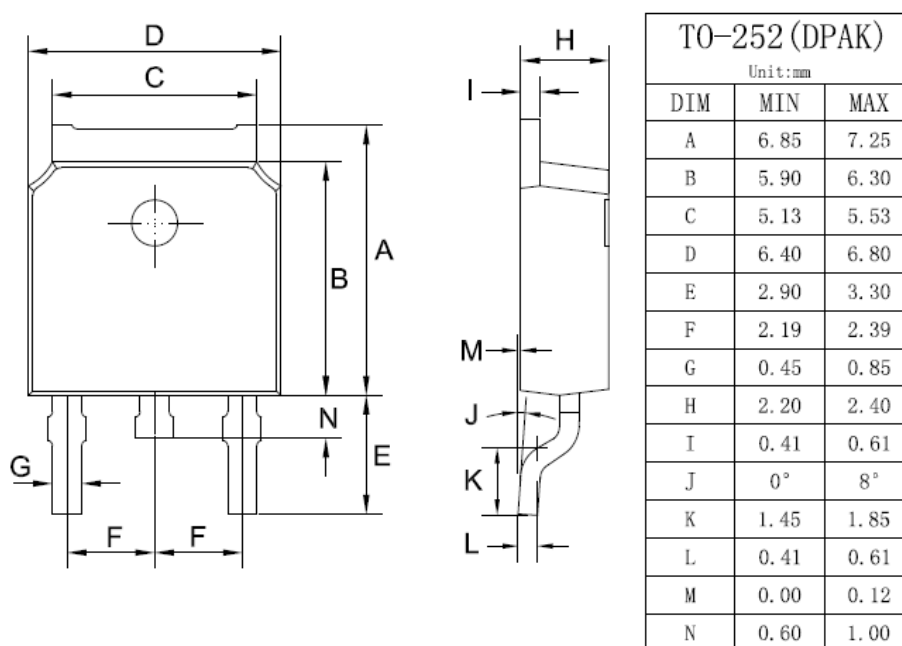
Body Diode Forward Voltage Variation vs. Source Current and Temperature



TO-251 Mechanical Drawing



TO-252 Mechanical Drawing



Disclaimer

EVVOSEMI ("EVVO") reserves the right to make corrections, enhancements, improvements, and other changes to its products and services at any time, and to discontinue any product or service without notice.

EVVO warrants the performance of its hardware products to the specifications applicable at the time of sale in accordance with its standard warranty. Testing and other quality control techniques are used as deemed necessary by EVVO to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

Customers should obtain and confirm the latest product information and specifications before final design, purchase, or use. EVVO makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does EVVO assume any liability for application assistance or customer product design. EVVO does not warrant or accept any liability for products that are purchased or used for any unintended or unauthorized application.

EVVO products are not authorized for use as critical components in life support devices or systems without the express written approval of EVVOSEMI.

The EVVO logo and EVVOSEMI are trademarks of EVVOSEMI or its subsidiaries in relevant jurisdictions. EVVO reserves the right to make changes without further notice to any products herein.