

N-Channel Enhancement-Mode MOSFET

DESIGNED FOR:

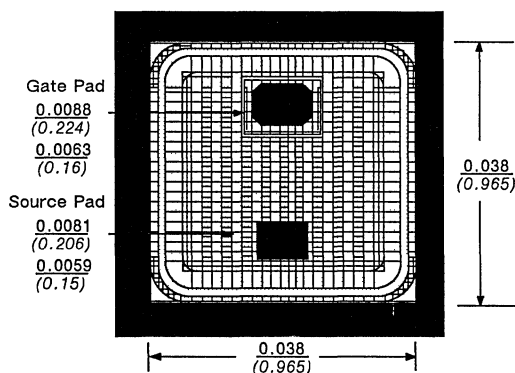
- Switching
- Amplification

FEATURES

- Protection Diode
- Low $r_{DS(on)} < 10 \Omega$

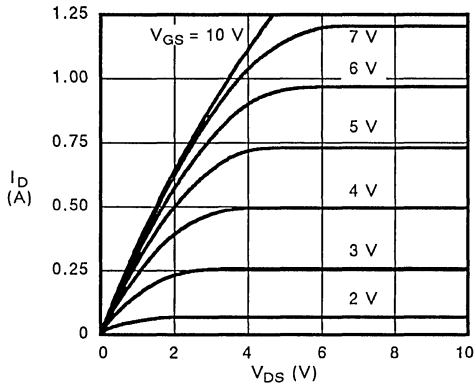
TYPE	PACKAGE	DEVICE
Single	TO-206AC	• VN10KE
	TO-92	• VN0610L, VN2222L
	TO-237	• VN10KM, VN2222KM
	Chip	• Available as above specifications

GEOMETRY DIAGRAM

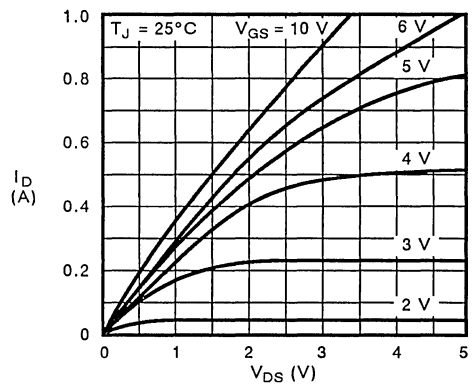


TYPICAL CHARACTERISTICS

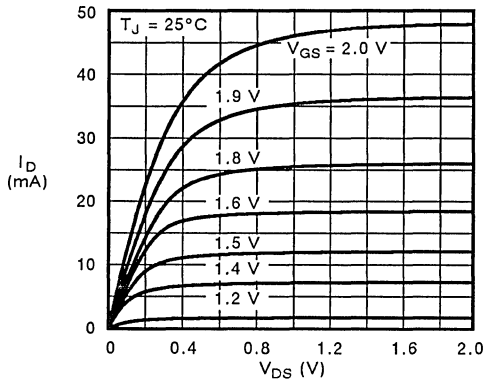
Output Characteristics



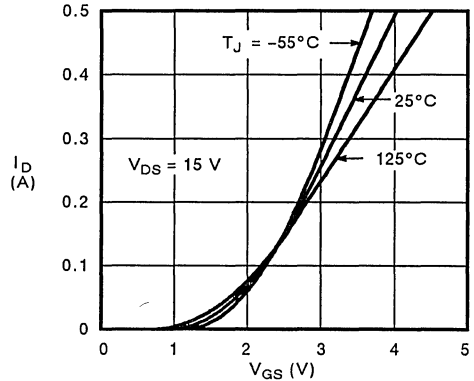
Ohmic Region Characteristics



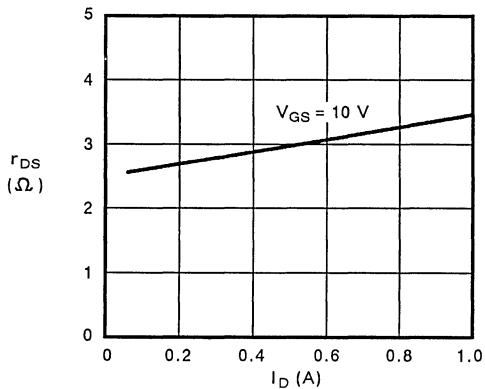
Output Characteristics for Low Gate Drive



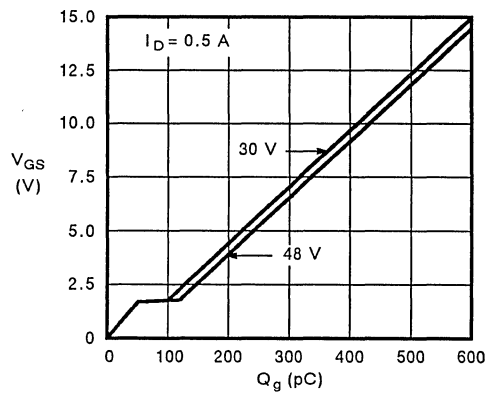
Transfer Characteristics



On-Resistance

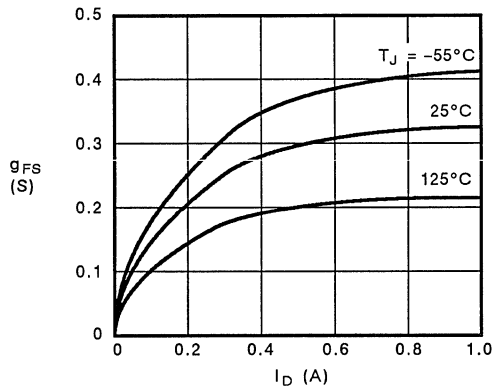


Gate Charge

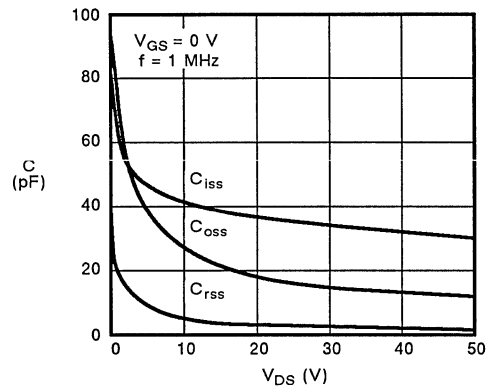


TYPICAL CHARACTERISTICS

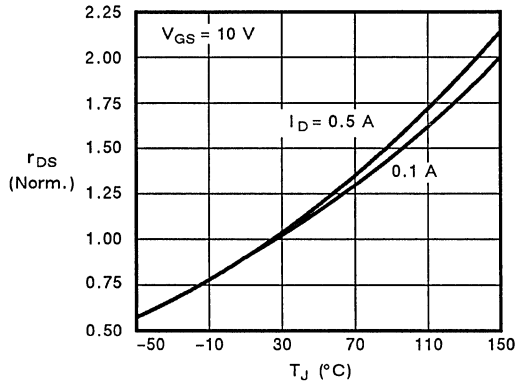
Transconductance



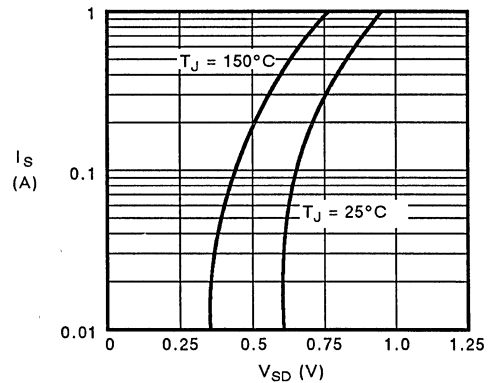
Capacitance



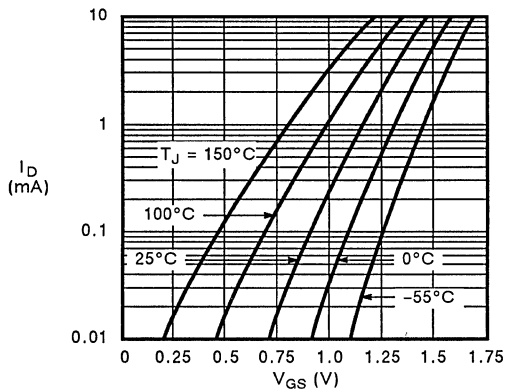
On-Resistance vs. Junction Temperature



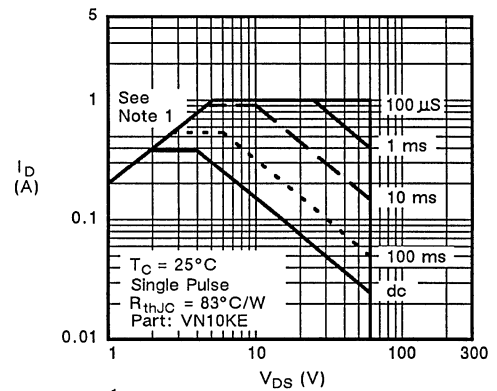
Source-Drain Diode Forward Voltage



Threshold Region



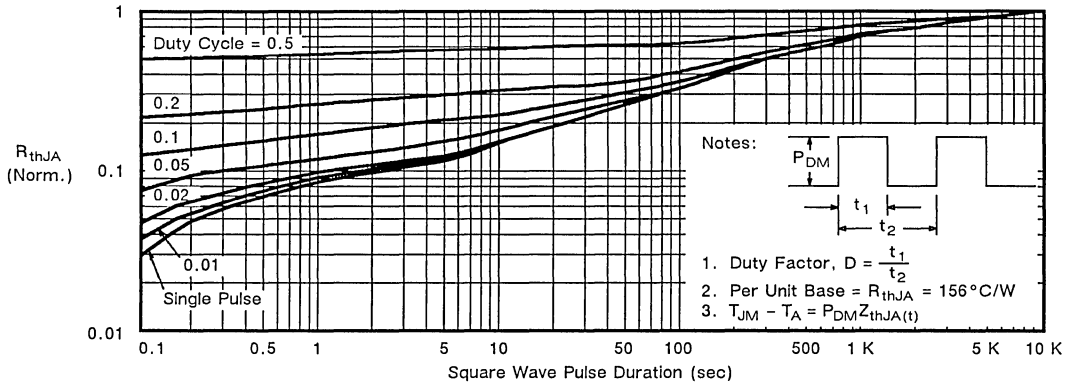
Safe Operating Area



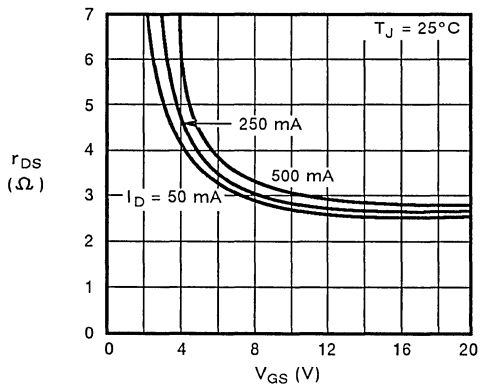
¹Operation in this area may be limited by $r_{DS(ON)}$

TYPICAL CHARACTERISTICS

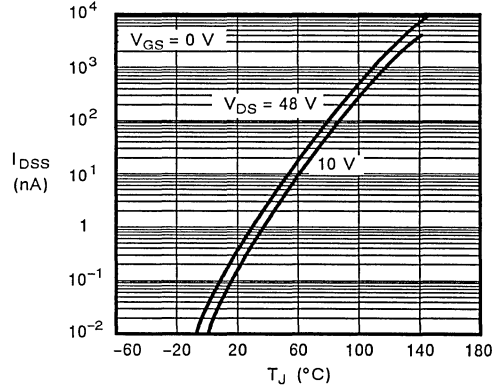
Normalized Effective Transient Thermal Impedance, Junction-to-Ambient (TO-92)



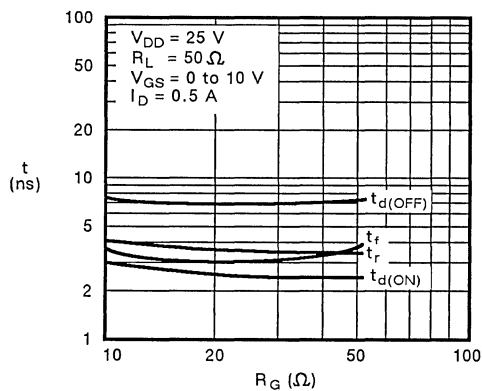
On-Resistance vs. Gate to Source Voltage



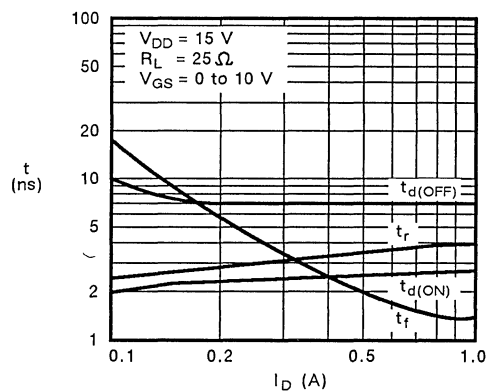
Off State Current



Drive Resistance Effects on Switching

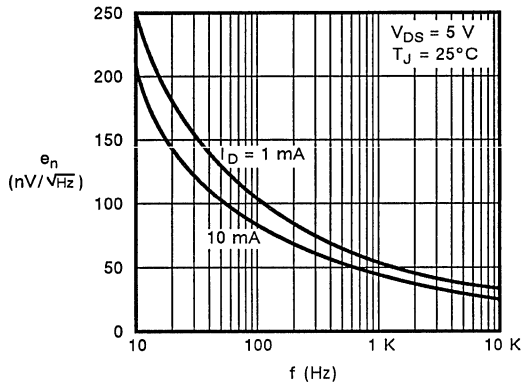


Load Condition Effects on Switching

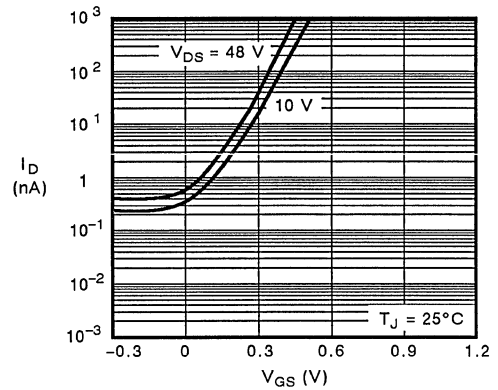


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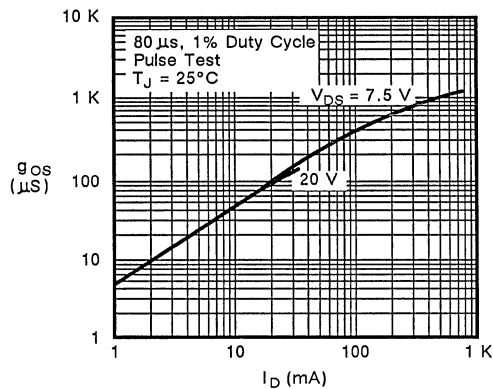
Equivalent Input Noise Voltage vs. Frequency



Body-Drain Leakage Current



Output Conductance vs. Drain Current



Transient Thermal Response (TO-206AC)

