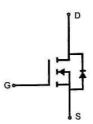


Product Summary

 $V_{DS} = 600 \text{ V}$ $I_D = 4A$

 $R_{DS(ON)} = 2.5 \Omega$



Features

- э High current handling capability
- э Rugged and reliable
- → Surface Mount package



TO-220FP

Absolute Maximum Ratings (T_A = 25°C unless specified)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	V_{DS}	600	V
Gate-Source Voltage	V_{GS}	±30	V
Drain Current-Continuous	I _D	4	Α
Drain-Source Diode Forward Current ^a	I _S	4	Α

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VF04N60

N-Channel Electrical Characteristics (T_A = 25°C unless specified)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Drain-Source Breakdown Voltage	BV _{DS}	$V_{GS} = 0V, I_{D} = 250 \mu A$	600	670		V
Zero Gate Voltage Drain Current	I _{DS}	$V_{DS} = 600V, V_{GS} = 0V$			±1	μΑ
Gate-Body Leakage	I_{GS}	$V_{GS} = \pm 30 \text{V}, V_{DS} = 0 \text{V}$			±1	μΑ
Gate Threshold Voltage	V_{th}	$V_{GS} = V_{DS}, I_{D} = 250 \mu A$	2.0	3.0	4.5	V
Drain-Source On-State Resistance	R _{DS(ON)}	$V_{GS} = 10V, I_{D} = 2A$			2.5	Ω
Diode Forward Voltage	V_{SD}	$V_{GS} = 0V$, $I_D = 4A$		0.8	1.5	V

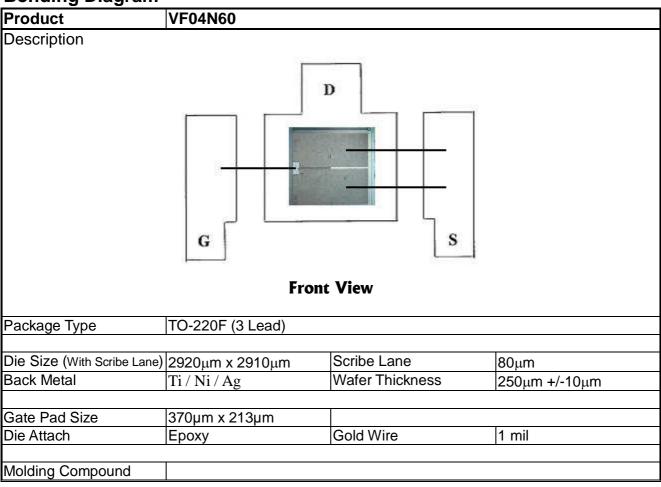
Notes:

- a. Surface Mounted on FR4 Board, $t \le 10$ sec.
- b. Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle.
- c. Guaranteed by Design, not subject to production.
- d. All above specification values are based on Vitelic's testing machines.

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Bonding Diagram



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