



YJGD40N03A

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YJGD40N03B
FOR NEW DESIGN

N-Channel Enhancement Mode Field Effect Transistor



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■ NMOS (Die1/Die2) Electrical Characteristics (T_J=25 unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Static Parameter						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} = 0V, I _D =250μA	30			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =30V, V _{GS} =0V			1	μA
Gate-Body Leakage Current	I _{GSS}	V _{GS} = ± 20V, V _{DS} =0V			± 100	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} = V _{GS} , I _D =250μA	1.0	1.5	2.5	V
Static Drain-Source On-Resistance	R _{DS(on)}	V _{GS} = 10V, I _D =15A		7.2	9.2	mΩ
		V _{GS} = 4.5V, I _D =10A		11	14.5	
Diode Forward Voltage	V _{SD}	I _S =15A, V _{GS} =0V		0.85	1.2	V

Maximum Body-



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Figure7. Safe Operation Area

Figure8. Drain current vs. Case Temperature

Figure 9.



■ DFN5060-8L Package Information

Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.10\text{mm}$.

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