



YJGD40N03A

RECOMMEND
YJGD40N03B
FOR NEW DESIGN

N-Channel Enhancement Mode Field Effect Transistor



YJGD40N03A

RECOMMEND
YJGD40N03B
FOR NEW DESIGN

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}	$V_{GS}=0V, I_D=250\mu A$	30			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=30V, V_{GS}=0V$			1	μA
Gate-Body Leakage Current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	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	m
		$V_{GS}=4.5V, I_D=10A$		11	14.5	
Diode Forward Voltage	V_{SD}	$I_S=15A, V_{GS}=0V$		0.85	1.2	V

Maximum Body-



YJGD40N03A

RECOMMEND
YJGD40N03B
FOR NEW DESIGN



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: $\pm 0.10\text{mm}$.

NOT RECOMMENDED
FOR NEW DESIGN



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.

NOT RECOMMENDED
FOR NEW DESIGN