



**YJGD40N03A**

RECOMMEND  
**YJGD40N03B**  
FOR NEW DESIGN

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## **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
<b>Static Parameter</b>						
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	$\mu A$
Gate-Body Leakage Current	$I_{GSS}$	$V_{GS}=\pm 20V, V_{DS}=0V$			$\pm 100$	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-





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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