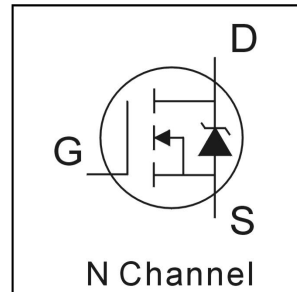


N Channel Power MOSFET FOR LOGIC DRIVER

Chip Specification

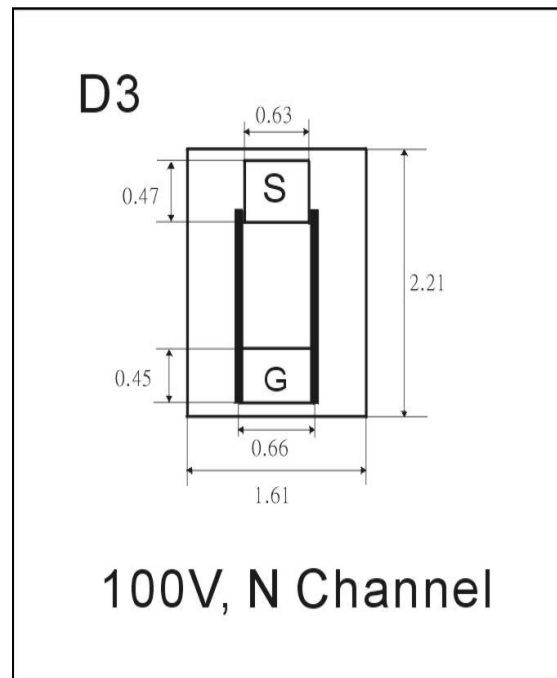
General Description:

- * Advanced Process Technology
- * Dynamic dv/dt Rating
- * **175°C Operating Temperature**
- * **Fast Switching**
- * **Fully Avalanche Rated**
- * **RDS(ON) rated at VGS = 5V**
- * **Ease of parallel**



Mechanical Data:

D3	
Dimension	1.61mm x 2.21mm
Thickness:	400 μm
Metallization:	
Top :	Al
Backside :	CrNiAg / Au
Suggested Bonding Conditions:	
Die Mounting:	Solder Perform
95/5 PbSn or 92.5/2.5/5 PbAgIn	
Source Bonding Wire:	5 mil Al



Absolute Maximum Rating

@Ta=25°C

Characteristics	Symbol	Limit	Unit	Test Conditions
Drain-to-Source Breakdown Voltage	V(BR)DSS	100	V	VGS=0V, ID=250μA
Static Drain-to - Source On-resistance	RDS(ON)	0.54	Ω	VGS=5V, ID=3.45A
Continuous Drain current (in target package)	ID@25°C	5.6	A	VGS= 5V
Continuous Drain current (in target package)	ID@100°C	4	A	VGS= 5V
Operation Junction Temperature	Tj	-55~175	°C	
Storage Temperature	TSTR	-55~175	°C	

Target Device: IRL510

TO-220AB

Pd

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W

@Tc=25°C

