

Gunter Semiconductor GmbH

GFC448

N Channel Power MOSFET with low RDS(on)

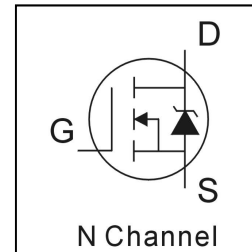
Chip Specification

General Description:

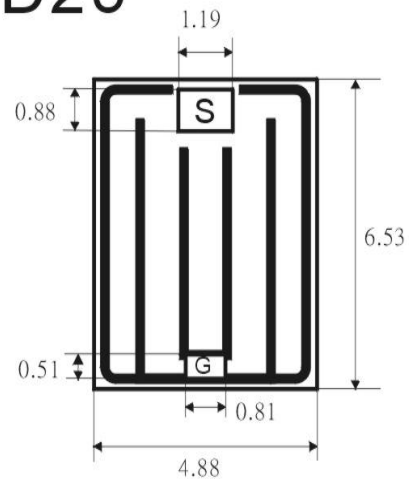
- * Advanced Process Technology
- * Dynamic dV/dt Rating
- * **175°C Operating Temperature**
- * **Fast Switching**
- * **Fully Avalanche Rated**
- * **Low RDS(on)**

Mechanical Data:

D25	
Dimension	4.88mm x 6.53mm
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:	12 mil Al



D25



500V, N Channel

Absolute Maximum Rating

@Ta=25°C

Characteristics	Symbol	Limit	Unit	Test Conditions
Drain-to-Source Breakdown Voltage	V(BR)DSS	500	V	VGS=0V, ID=250μA
Static Drain-to - Source On-resistance	RDS(ON)	0.6	Ω	VGS=10V, ID=6.6A
Continuous Drain current (in target package)	ID@25°C	27	A	VGS=10V
Continuous Drain current (in target package)	ID@100°C	19	A	VGS=10V
Operation Junction	Tj	-55~150	°C	
Storage Temperature	TSTR	-55~150	°C	

Target Device: IRFP448

TO-220AB

Pd

180

W

@Tc=25°C

