



# **IRLU2905ZPBF Information**



For Reference Only

Part Number IRLU2905ZPBF

Manufacturer Infineon Technologies

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 55V 42A I-PAK

Package TO-251-3 Short Leads, IPak, TO-251AA

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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# **IRLU2905ZPBF Specifications**

Manufacturer Part Number         IRLU2905ZPBF           Manufacturer         Infineon Technologies           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-251-3 Short Leads, IPak, TO-251AA           Series         HEXFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         55V           Current - Continuous Drain (Id) @ 25°C         42A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         35nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         1570pF @ 25V           Vgs (Max)         ±16V           FET Feature         -           Power Dissipation (Max)         110W (Tc)           Rds On (Max) @ Id, Vgs         13.5 mOhm @ 36A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         IPAK (TO-251)           Package / Case         TO-251-3 Short Leads, IPak, TO-251AA		
Category         Discrete Semiconductor Products           Fackage         Transistors - FETs, MOSFETs - Single           Package         TO-251-3 Short Leads, IPak, TO-251AA           Series         HEXFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         55V           Current - Continuous Drain (Id) @ 25°C         42A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         35nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         1570pF @ 25V           Vgs (Max)         ±16V           FET Feature         -           Power Dissipation (Max)         110W (Tc)           Rds On (Max) @ Id, Vgs         13.5 mOhm @ 36A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         IPAK (TO-251)           Package / Case         TO-251-3 Short Leads, IPak, TO-251AA	Manufacturer Part Number	IRLU2905ZPBF
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PackageTO-251-3 Short Leads, IPak, TO-251AASeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)55VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs35nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1570pF @ 25VVgs (Max)±16VFET Feature-Power Dissipation (Max)110W (Tc)Rds On (Max) @ Id, Vgs13.5 mOhm @ 36A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageIPAK (TO-251)Package / CaseTO-251-3 Short Leads, IPak, TO-251AA	Category	Discrete Semiconductor Products
SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)55VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250µAGate Charge (Qg) (Max) @ Vgs35nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1570pF @ 25VVgs (Max)±16VFET Feature-Power Dissipation (Max)110W (Tc)Rds On (Max) @ Id, Vgs13.5 mOhm @ 36A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageIPAK (TO-251)Package / CaseTO-251-3 Short Leads, IPak, TO-251AA		Transistors - FETs, MOSFETs - Single
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Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  42A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  John Mounting Type  Supplier Device Package  Package / Case  MOSFET (Metal Oxide)  55V  MOSFET (Metal Oxide)  55V  42A (Tc)  45V, 10V  45V, 10V  45V, 10V  45Vg 250µA  1570pF @ 25V  416V  416V  416V  416V  416V  410W (Tc)  4	Series	HEXFET?
Drain to Source Voltage (Vdss)55VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs35nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1570pF @ 25VVgs (Max)±16VFET Feature-Power Dissipation (Max)110W (Tc)Rds On (Max) @ Id, Vgs13.5 mOhm @ 36A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageIPAK (TO-251)Package / CaseTO-251-3 Short Leads, IPak, TO-251AA	FET Type	N-Channel
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Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs35nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1570pF @ 25VVgs (Max)±16VFET Feature-Power Dissipation (Max)110W (Tc)Rds On (Max) @ Id, Vgs13.5 mOhm @ 36A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageIPAK (TO-251)Package / CaseTO-251-3 Short Leads, IPak, TO-251AA	Drain to Source Voltage (Vdss)	55V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Through Hole  Supplier Device Package  FOUR SUMMER SUMM	Current - Continuous Drain (Id) @ 25°C	42A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1570pF @ 25V  Vgs (Max)  ±16V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  13.5 mOhm @ 36A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  IPAK (TO-251)  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds  1570pF @ 25V  Vgs (Max)  ET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  13.5 mOhm @ 36A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  IPAK (TO-251)  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Vgs(th) (Max) @ Id	3V @ 250μA
Vgs (Max) $\pm 16V$ FET Feature-Power Dissipation (Max) $110W$ (Tc)Rds On (Max) @ Id, Vgs $13.5$ mOhm @ $36A$ , $10V$ Operating Temperature $-55^{\circ}$ C ~ $175^{\circ}$ C (TJ)Mounting TypeThrough HoleSupplier Device PackageIPAK (TO-251)Package / CaseTO-251-3 Short Leads, IPak, TO-251AA	Gate Charge (Qg) (Max) @ Vgs	35nC @ 5V
FET Feature -  Power Dissipation (Max) 110W (Tc)  Rds On (Max) @ Id, Vgs 13.5 mOhm @ 36A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Through Hole  Supplier Device Package IPAK (TO-251)  Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Input Capacitance (Ciss) (Max) @ Vds	1570pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  13.5 mOhm @ 36A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  IPAK (TO-251)  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Vgs (Max)	±16V
Rds On (Max) @ Id, Vgs13.5 mOhm @ 36A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageIPAK (TO-251)Package / CaseTO-251-3 Short Leads, IPak, TO-251AA	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  IPAK (TO-251)  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Power Dissipation (Max)	110W (Tc)
Mounting Type Through Hole Supplier Device Package IPAK (TO-251) Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Rds On (Max) @ Id, Vgs	13.5 mOhm @ 36A, 10V
Supplier Device Package IPAK (TO-251) Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Mounting Type	Through Hole
	Supplier Device Package	IPAK (TO-251)
Report errors?	Package / Case	TO-251-3 Short Leads, IPak, TO-251AA
		Report errors?

### **IRLU2905ZPBF Guarantees**



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

# **IRLU2905ZPBF Payment Methods**





















### **IRLU2905ZPBF Shipping Methods**













If you have any question about IRLU2905ZPBF, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com