

# IRLR7807ZPBF

# **IRLR7807ZPBF Information**



# **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



# **IRLR7807ZPBF** Specifications

Manufacturer Part NumberIRLR7807ZPBFManufacturer AInfineon TechnologiesCategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C43A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th (Max) @ Id2.25V @ 250µAGate Charge (Qg) (Max) @ Vgs11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds20VFET Feature-Power Dissipation (Max)13.8 mOhm @ 15A, 10VOperating Temperature55°C ~ 175°C (TJ)Mounting TypeSurface MountSurface MountSurface MountSurface MountSurface MountSurface MountD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		
CategoryDiscrete Semiconductor ProductsTransistors - FETS, MOSFETS - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C43A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.25V @ 250µAGate Charge (Qg) (Max) @ Vds11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeDenak	Manufacturer Part Number	IRLR7807ZPBF
Transistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C43A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.25V @ 250µAGate Charge (Qg) (Max) @ Vgs11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds780pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Manufacturer	Infineon Technologies
Package     TO-252-3, DPak (2 Leads + Tab), SC-63       Series     HEXFET?       FET Type     N-Channel       Technology     MOSFET (Metal Oxide)       Drain to Source Voltage (Vdss)     30V       Current - Continuous Drain (Id) @ 25°C     43A (Tc)       Drive Voltage (Max Rds On, Min Rds On)     4.5V, 10V       Vgs(th) (Max) @ Id     2.25V @ 250µA       Gate Charge (Qg) (Max) @ Vgs     11nC @ 4.5V       Input Capacitance (Ciss) (Max) @ Vds     780pF @ 15V       Vgs (Max)     ±20V       FET Feature     -       Power Dissipation (Max)     40W (Tc)       Rds On (Max) @ Id, Vgs     13.8 mOhm @ 15A, 10V       Operating Temperature     -55° C ~ 175° C (TJ)       Mounting Type     DePak	Category	Discrete Semiconductor Products
SeriesHEXFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C43A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.25V @ 250µAGate Charge (Qg) (Max) @ Vgs11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds780pF @ 15VVgs(Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55° C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelFET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C43A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.25V @ 250µAGate Charge (Qg) (Max) @ Vgs11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds780pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C43A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.25V @ 250µAGate Charge (Qg) (Max) @ Vgs11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds780pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Series	HEXFET?
Drain to Source Voltage (Vdss)     30V       Current - Continuous Drain (Id) @ 25°C     43A (Tc)       Drive Voltage (Max Rds On, Min Rds On)     4.5V, 10V       Vgs(th) (Max) @ Id     2.25V @ 250µA       Gate Charge (Qg) (Max) @ Vgs     11nC @ 4.5V       Input Capacitance (Ciss) (Max) @ Vds     780pF @ 15V       Vgs (Max)     ±20V       FET Feature     -       Power Dissipation (Max)     40W (Tc)       Rds On (Max) @ Id, Vgs     13.8 mOhm @ 15A, 10V       Operating Temperature     -55°C ~ 175°C (TJ)       Mounting Type     Surface Mount       Supplier Device Package     D-Pak	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°С     43A (Tc)       Drive Voltage (Max Rds On, Min Rds On)     4.5V, 10V       Vgs(th) (Max) @ Id     2.25V @ 250µA       Gate Charge (Qg) (Max) @ Vgs     11nC @ 4.5V       Input Capacitance (Ciss) (Max) @ Vds     780pF @ 15V       Vgs (Max)     ±20V       FET Feature     -       Power Dissipation (Max)     40W (Tc)       Rds On (Max) @ Id, Vgs     13.8 mOhm @ 15A, 10V       Operating Temperature     -55°C ~ 175°C (TJ)       Mounting Type     Surface Mount       Supplier Device Package     D-Pak	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.25V @ 250μAGate Charge (Qg) (Max) @ Vgs11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds780pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Drain to Source Voltage (Vdss)	30V
Vgs(th) (Max) @ Id2.25V @ 250μAGate Charge (Qg) (Max) @ Vgs11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds780pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Current - Continuous Drain (Id) @ 25°C	43A (Tc)
Gate Charge (Qg) (Max) @ Vgs11nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds780pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds780pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Vgs(th) (Max) @ Id	2.25V @ 250µA
Ygs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Gate Charge (Qg) (Max) @ Vgs	11nC @ 4.5V
FET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Input Capacitance (Ciss) (Max) @ Vds	780pF @ 15V
Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs13.8 mOhm @ 15A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	FET Feature	-
Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-Pak	Power Dissipation (Max)	40W (Tc)
Mounting TypeSurface MountSupplier Device PackageD-Pak	Rds On (Max) @ Id, Vgs	13.8 mOhm @ 15A, 10V
Supplier Device Package D-Pak	Operating Temperature	-55°C ~ 175°C (TJ)
	Mounting Type	Surface Mount
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Supplier Device Package	D-Pak
	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
Report errors?		Report errors?

#### **IRLR7807ZPBF** 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 BUARANTEE

#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### **IRLR7807ZPBF** Payment Methods



### **IRLR7807ZPBF** Shipping Methods



If you have any question about IRLR7807ZPBF, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com