

PMN42XPE,115 Information



For Reference Only

Part Number PMN42XPE,115 **Manufacturer** Nexperia USA Inc.

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

Description MOSFET P-CH 20V 4A 6TSOP

Package SC-74, SOT-457

For the pricing/inventory/lead time, please contact

us

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



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PMN42XPE,115 Specifications

Manufacturer Part Number PMN42XPE,115 Manufacturer Nexperia USA Inc. Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package SC-74, SOT-457 Series - FET Type P-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 4A (Ta) Drive Voltage (Max Rds On, Min Rds On) 2.5V, 4.5V Vgs(th) (Max) @ Id 1.25V @ 250µA Gate Charge (Qg) (Max) @ Vgs 17.3nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 1410pF @ 10V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 500mW (Ta), 8.33W (Tc) Rds On (Max) @ Id, Vgs 46 mOhm @ 3A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457		
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Package SC-74, SOT-457 Series - FET Type P-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 4A (Ta) Drive Voltage (Max Rds On, Min Rds On) 2.5V, 4.5V Vgs(th) (Max) @ Id 1.25V @ 250μA Gate Charge (Qg) (Max) @ Vgs 17.3nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 1410pF @ 10V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 500mW (Ta), 8.33W (Tc) Rds On (Max) @ Id, Vgs 46 mOhm @ 3A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457	Category	Discrete Semiconductor Products
Series-FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C4A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.25V @ 250μAGate Charge (Qg) (Max) @ Vgs17.3nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1410pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)500mW (Ta), 8.33W (Tc)Rds On (Max) @ Id, Vgs46 mOhm @ 3A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-TSOPPackage / CaseSC-74, SOT-457		Transistors - FETs, MOSFETs - Single
FET Type P-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 4A (Ta) Drive Voltage (Max Rds On, Min Rds On) 2.5V, 4.5V Vgs(th) (Max) @ Id 1.25V @ 250μA Gate Charge (Qg) (Max) @ Vgs 17.3nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 1410pF @ 10V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 500mW (Ta), 8.33W (Tc) Rds On (Max) @ Id, Vgs 46 mOhm @ 3A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457	Package	SC-74, SOT-457
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 4A (Ta) 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 -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case MOSFET (Metal Oxide) 20V MOSFET (Metal Oxide) 20V 4A (Ta) 1.25V @ 250µA 1.25V @ 250µA 17.3nC @ 4.5V 1410pF @ 10V ±12V FET Feature - Common (Ta), 8.33W (Tc) 46 mOhm @ 3A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Surface Mount Supplier Device Package 6-TSOP Package / Case	Series	-
Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C4A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.25V @ 250μAGate Charge (Qg) (Max) @ Vgs17.3nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1410pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)500mW (Ta), 8.33W (Tc)Rds On (Max) @ Id, Vgs46 mOhm @ 3A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-TSOPPackage / CaseSC-74, SOT-457	FET Type	P-Channel
Current - Continuous Drain (Id) @ 25°C Drive Voltage (Max Rds On, Min Rds On) 2.5V, 4.5V Vgs(th) (Max) @ Id 1.25V @ 250µA Gate Charge (Qg) (Max) @ Vgs 17.3nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 1410pF @ 10V Vgs (Max) £12V FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 46 mOhm @ 3A, 4.5V Operating Temperature Surface Mount Supplier Device Package Package / Case 4A (Ta) 4A (Ta	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.25V @ 250μAGate Charge (Qg) (Max) @ Vgs17.3nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1410pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)500mW (Ta), 8.33W (Tc)Rds On (Max) @ Id, Vgs46 mOhm @ 3A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-TSOPPackage / CaseSC-74, SOT-457	Drain to Source Voltage (Vdss)	20V
Vgs(th) (Max) @ Id 1.25V @ 250μA Gate Charge (Qg) (Max) @ Vgs 17.3nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 1410pF @ 10V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 500mW (Ta), 8.33W (Tc) Rds On (Max) @ Id, Vgs 46 mOhm @ 3A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457	Current - Continuous Drain (Id) @ 25°C	4A (Ta)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 1410pF @ 10V Vgs (Max) ±12V FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 17.3nC @ 4.5V 1410pF @ 10V 1410pF @ 10V 500mW (Ta), 8.33W (Tc) 46 mOhm @ 3A, 4.5V -55°C ~ 150°C (TJ) Surface Mount Surface Mount	Drive Voltage (Max Rds On, Min Rds On)	2.5V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case SC-74, SOT-457	Vgs(th) (Max) @ Id	1.25V @ 250μA
Vgs (Max)±12VFET Feature-Power Dissipation (Max)500mW (Ta), 8.33W (Tc)Rds On (Max) @ Id, Vgs46 mOhm @ 3A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-TSOPPackage / CaseSC-74, SOT-457	Gate Charge (Qg) (Max) @ Vgs	17.3nC @ 4.5V
FET Feature - FET Feature - S00mW (Ta), 8.33W (Tc) Rds On (Max) @ Id, Vgs 46 mOhm @ 3A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457	Input Capacitance (Ciss) (Max) @ Vds	1410pF @ 10V
Power Dissipation (Max) 500mW (Ta), 8.33W (Tc) Rds On (Max) @ Id, Vgs 46 mOhm @ 3A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457	Vgs (Max)	±12V
Rds On (Max) @ Id, Vgs46 mOhm @ 3A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-TSOPPackage / CaseSC-74, SOT-457	FET Feature	-
Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457	Power Dissipation (Max)	500mW (Ta), 8.33W (Tc)
Mounting Type Surface Mount Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457	Rds On (Max) @ Id, Vgs	46 mOhm @ 3A, 4.5V
Supplier Device Package 6-TSOP Package / Case SC-74, SOT-457	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case SC-74, SOT-457	Mounting Type	Surface Mount
	Supplier Device Package	6-TSOP
Report errors?	Package / Case	SC-74, SOT-457
		Report errors?

PMN42XPE,115 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.

PMN42XPE,115 Payment Methods



















PMN42XPE,115 Shipping Methods













If you have any question about PMN42XPE,115, please do not hesitate to contact us!

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