



#### PMPB20XNEAZ Information



For Reference Only

Part Number PMPB20XNEAZ
Manufacturer Nexperia USA Inc.

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 20V SOT1220

Package 6-UDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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



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# PMPB20XNEAZ Specifications

Manufacturer Part Number  Manufacturer  Nexperia USA Inc.  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  Package  6-UDFN Exposed Pad  Series  Automotive, AEC-Q101  FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  7.5A (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)  #12V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  #460mW (Ta), 12.5W (Tc)  Mounting Type  Surface Mount  Supplier Device Package  6-DFN2020MD (2x2)  Package / Case  Report errors?		
CategoryDiscrete Semiconductor ProductsPackage6-UDFN Exposed PadSeriesAutomotive, AEC-Q101FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C7.5A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.25V @ 250μAGate Charge (Qg) (Max) @ Vgs15nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds930pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)460mW (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs20 mOhm @ 7.5A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Manufacturer Part Number	PMPB20XNEAZ
Package         6-UDFN Exposed Pad           Series         Automotive, AEC-Q101           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         7.5A (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         15nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         930pF @ 10V           Vgs (Max)         ±12V           FET Feature         -           Power Dissipation (Max)         460mW (Ta), 12.5W (Tc)           Rds On (Max) @ Id, Vgs         20 mOhm @ 7.5A, 4.5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         6-DFN2020MD (2x2)           Package / Case         6-UDFN Exposed Pad	Manufacturer	Nexperia USA Inc.
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FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C7.5A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.25V @ 250μAGate Charge (Qg) (Max) @ Vgs15nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds930pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)460mW (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs20 mOhm @ 7.5A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Package	6-UDFN Exposed Pad
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  7.5A (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  AMOSFET (Metal Oxide)  20V  7.5A (Ta)  1.25V @ 250µA  1.25V @ 250µA  1.25V @ 250µA  1.25V @ 20µA  1.25V @ 250µA  1	Series	Automotive, AEC-Q101
Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C7.5A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.25V @ 250μAGate Charge (Qg) (Max) @ Vgs15nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds930pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)460mW (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs20 mOhm @ 7.5A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	FET Type	N-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  15nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds  930pF @ 10V  Vgs (Max)  ±12V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  20 mOhm @ 7.5A, 4.5V  Operating Temperature  Surface Mount  Supplier Device Package  Package / Case  7.5A (Ta)  8.5V  9.30pF @ 10V  9.30pF @ 1	Technology	MOSFET (Metal Oxide)
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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  1.25V @ 250μA  1.26V @ 250μA  1.26V  20μ0  930pF @ 10V  -12V  -1	Current - Continuous Drain (Id) @ 25°C	7.5A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  930pF @ 10V  Vgs (Max)  ±12V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  20 mOhm @ 7.5A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  6-DFN2020MD (2x2)  Package / Case  6-UDFN Exposed Pad	Drive Voltage (Max Rds On, Min Rds On)	2.5V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET 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  6-UDFN Exposed Pad	Vgs(th) (Max) @ Id	1.25V @ 250μA
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FET Feature - Gower Dissipation (Max) 460mW (Ta), 12.5W (Tc) 20 mOhm @ 7.5A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 6-DFN2020MD (2x2) Package / Case 6-UDFN Exposed Pad	Input Capacitance (Ciss) (Max) @ Vds	930pF @ 10V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  20 mOhm @ 7.5A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  6-DFN2020MD (2x2)  Package / Case  6-UDFN Exposed Pad	Vgs (Max)	±12V
Rds On (Max) @ Id, Vgs20 mOhm @ 7.5A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  6-DFN2020MD (2x2)  Package / Case  6-UDFN Exposed Pad	Power Dissipation (Max)	460mW (Ta), 12.5W (Tc)
Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Rds On (Max) @ Id, Vgs	20 mOhm @ 7.5A, 4.5V
Supplier Device Package 6-DFN2020MD (2x2) Package / Case 6-UDFN Exposed Pad	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case 6-UDFN Exposed Pad	Mounting Type	Surface Mount
	Supplier Device Package	6-DFN2020MD (2x2)
Report errors?	Package / Case	6-UDFN Exposed Pad
1		Report errors?

#### **PMPB20XNEAZ 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.

## PMPB20XNEAZ Payment Methods



















## PMPB20XNEAZ Shipping Methods













If you have any question about PMPB20XNEAZ, please do not hesitate to contact us!

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