

# PMPB20ENZ

### **PMPB20ENZ Information**

when sensem	Part Number	PMPB20ENZ	
	Manufacturer	Nexperia USA Inc.	
	Category	Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single	
	Description	MOSFET N-CH 30V 7.2A 6DFN	
	Package	6-UDFN Exposed Pad	
		For the pricing/inventory/lead time, please contact	
		us	
For Reference Only		Website: https://www.heisener.com	
		E-mail: salesdept@heisener.com	



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## **PMPB20ENZ Specifications**

Manufacturer Part NumberPMPB20ENZManufacturerNexperia USA Inc.CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackage6-UDFN Exposed PadSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C7.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250µAGate Charge (Qg) (Max) @ Vgs10.8n C @ 10VInput Capacitance (Ciss) (Max) @ Vds435pF @ 10VVgs(Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DEN2020MD (2x2)Package / Case6-UDFN Exposed Pad		
CategoryDiscrete Semiconductor Products Transistors - FETs, MOSFETs - SinglePackage6-UDFN Exposed PadSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C7.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250µAGate Charge (Qg) (Max) @ Vgs10.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds420VFET Feature-Power Dissipation (Max)1.7W (Ta), 1.25W (Tc)Rds On (Max) @ Id, Vgs1.55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-DFN2020MD (2x2)	Manufacturer Part Number	PMPB20ENZ
Transistors - FETs, MOSFETs - SinglePackage6-UDFN Exposed PadSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C7.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250µAGate Charge (Qg) (Max) @ Vgs10.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds435pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Manufacturer	Nexperia USA Inc.
Package6-UDFN Exposed PadSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C7.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250µAGate Charge (Qg) (Max) @ Vgs10.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds435pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mohm @ 7A, 10VOperating Temperature55°C ~ 150°C (TJ)Mounting TypeGurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Category	Discrete Semiconductor Products
Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C7.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250µAGate Charge (Qg) (Max) @ Vds10.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds435pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mohm @ 7A, 10VOperating Temperature55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C7.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250µAGate Charge (Qg) (Max) @ Vds10.8nC @ 10VIput Capacitance (Ciss) (Max) @ Vds435pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Te)Rds On (Max) @ Id, Vgs9.5 mOhm @ 7A, 10VOperating Temperature55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Package	6-UDFN Exposed Pad
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C7.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250µAGate Charge (Qg) (Max) @ Vgs10.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds355F @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.5W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs1.5m Ohm @ 7A, 10VOperating Temperature55°C ~ 150°C (TJ)Mounting TypeSufface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Series	-
Drain to Source Voltage (Vdss)     30V       Current - Continuous Drain (Id) @ 25°C     7.2A (Ta)       Drive Voltage (Max Rds On, Min Rds On)     4.5V, 10V       Vgs(th) (Max) @ Id     2V @ 250µA       Gate Charge (Qg) (Max) @ Vgs     10.8nC @ 10V       Input Capacitance (Ciss) (Max) @ Vds     435pF @ 10V       Vgs (Max)     ±20V       FET Feature     -       Power Dissipation (Max)     1.7W (Ta), 12.5W (Tc)       Rds On (Max) @ Id, Vgs     19.5 mOhm @ 7A, 10V       Operating Temperature     -55°C ~ 150°C (TJ)       Mounting Type     Surface Mount       Supplier Device Package     6-DFN2020MD (2x2)       Package / Case     6-UDFN Exposed Pad	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C     7.2A (Ta)       Drive Voltage (Max Rds On, Min Rds On)     4.5V, 10V       Vgs(th) (Max) @ Id     2V @ 250µA       Gate Charge (Qg) (Max) @ Vgs     10.8nC @ 10V       Input Capacitance (Ciss) (Max) @ Vds     435pF @ 10V       Vgs (Max)     ±20V       FET Feature     -       Power Dissipation (Max)     1.7W (Ta), 12.5W (Tc)       Rds On (Max) @ Id, Vgs     19.5 mOhm @ 7A, 10V       Operating Temperature     -       Mounting Type     Surface Mount       Supplier Device Package     6-DFN2020MD (2x2)       Package / Case     6-UDFN Exposed Pad	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250µAGate Charge (Qg) (Max) @ Vgs10.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds435pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating TemperatureSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Drain to Source Voltage (Vdss)	30V
Ygs(th) (Max) @ Id2V @ 250μAGate Charge (Qg) (Max) @ Vgs10.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds435pF @ 10VYgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Current - Continuous Drain (Id) @ 25°C	7.2A (Ta)
Gate Charge (Qg) (Max) @ Vgs10.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds435pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds435pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Vgs(th) (Max) @ Id	2V @ 250µA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Gate Charge (Qg) (Max) @ Vgs	10.8nC @ 10V
FET Feature-Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Input Capacitance (Ciss) (Max) @ Vds	435pF @ 10V
Power Dissipation (Max)1.7W (Ta), 12.5W (Tc)Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs19.5 mOhm @ 7A, 10VOperating 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 TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Power Dissipation (Max)	1.7W (Ta), 12.5W (Tc)
Mounting TypeSurface MountSupplier Device Package6-DFN2020MD (2x2)Package / Case6-UDFN Exposed Pad	Rds On (Max) @ Id, Vgs	19.5 mOhm @ 7A, 10V
Supplier Device Package6-DFN2020MD (2x2)Package / Case6-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
		Report errors?

#### **PMPB20ENZ** 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.

#### **PMPB20ENZ** Payment Methods





If you have any question about PMPB20ENZ, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com