



### **BUK7M8R0-40EX Information**



For Reference Only

**Part Number** BUK7M8R0-40EX **Manufacturer** Nexperia USA Inc.

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description**MOSFET N-CH 40V MLFPAK**Package**SOT-1210, 8-LFPAK33 (5-Lead)

For the pricing/inventory/lead time, please contact

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## **BUK7M8R0-40EX Specifications**

Manufacturer Part NumberBUK7M8R0-40EXManufacturerNexperia USA Inc.CategoryDiscrete Semiconductor Products Transistors - FETs, MOSFETs - SinglePackageSOT-1210, 8-LFPAK33 (5-Lead)SeriesAutomotive, AEC-Q101, TrenchMOS?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)40VCurrent - Continuous Drain (Id) @ 25°C69A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ ImAGate Charge (Qg) (Max) @ Vgs23.8nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1567pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tc)Rds On (Max) @ Id, Vgs8 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageLFPAK33Package / CaseSOT-1210, 8-LFPAK33 (5-Lead)		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package SOT-1210, 8-LFPAK33 (5-Lead) Series Automotive, AEC-Q101, TrenchMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) Urrent - Continuous Drain (Id) @ 25°C 69A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 1567pF @ 25V Vgs (Max)  FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs Rds On (Max) @ Id, Vgs Rds On (Max) @ Id, Vgs Surface Mount Supplier Device Package Package / Case SOT-1210, 8-LFPAK33 (5-Lead)	Manufacturer Part Number	BUK7M8R0-40EX
Package         SOT-1210, 8-LFPAK33 (5-Lead)           Series         Automotive, AEC-Q101, TrenchMOS?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         40V           Current - Continuous Drain (Id) @ 25°C         69A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         23.8nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1567pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         75W (Tc)           Rds On (Max) @ Id, Vgs         8 mOhm @ 20A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         LFPAK33           Package / Case         SOT-1210, 8-LFPAK33 (5-Lead)	Manufacturer	Nexperia USA Inc.
Package SOT-1210, 8-LFPAK33 (5-Lead)  Series Automotive, AEC-Q101, TrenchMOS?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 40V  Current - Continuous Drain (Id) @ 25°C 69A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 23.8nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 1567pF @ 25V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 75W (Tc)  Rds On (Max) @ Id, Vgs 8 mOhm @ 20A, 10V  Operating Temperature 55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package LFPAK33  Package / Case SOT-1210, 8-LFPAK33 (5-Lead)	Category	Discrete Semiconductor Products
Series Automotive, AEC-Q101, TrenchMOS?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 40V  Current - Continuous Drain (Id) @ 25°C 69A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4V @ ImA  Gate Charge (Qg) (Max) @ Vgs 23.8nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 1567pF @ 25V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 75W (Tc)  Rds On (Max) @ Id, Vgs 8 mOhm @ 20A, 10V  Operating Temperature 55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package LFPAK33  Package / Case Sort 1210, 8-LFPAK33 (5-Lead)		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  Prive 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  New Operating Temperature  Surface Mount  Supplier Device Package  Package / Case  N-Channel  MOSFET (Metal Oxide)  MOSFET (Metal Oxide)  MOSFET (Metal Oxide)  40V  69A (Tc)  69A	Package	SOT-1210, 8-LFPAK33 (5-Lead)
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  69A (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)  **EUV**  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  MOSFET (Metal Oxide)  40V  40V  **EUV**  69A (Tc)  69A (Tc	Series	Automotive, AEC-Q101, TrenchMOS?
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  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  Surplier Device Package  Package / Case  40V  69A (Tc)  69A	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  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  Smohm @ 20A, 10V  Operating Temperature  Supplier Device Package  Package / Case  69A (Tc)  69A	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  **ET Feature**  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  8 mOhm @ 20A, 10V  Operating Temperature  **Operating Temperature**  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  **Operating Temperature**  SOT-1210, 8-LFPAK33 (5-Lead)	Drain to Source Voltage (Vdss)	40V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1567pF @ 25V  Vgs (Max)  #20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  LFPAK33  Package / Case  4V @ 1mA  4N @ 10V  1567pF @ 25V  #20V  FET Feature  - 5**C ~ 175°C (TJ)  Surface Mount  Supplier Device Package  LFPAK33  SOT-1210, 8-LFPAK33 (5-Lead)	Current - Continuous Drain (Id) @ 25°C	69A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1567pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  8 mOhm @ 20A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  LFPAK33  Package / Case  23.8nC @ 10V  1567pF @ 25V  25V  26V  27V  28V  28V  29V  29V  20V  20V  20V  20V  20V  20	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  8 mOhm @ 20A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  LFPAK33  Package / Case  SOT-1210, 8-LFPAK33 (5-Lead)	Vgs(th) (Max) @ Id	4V @ 1mA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)75W (Tc)Rds On (Max) @ Id, Vgs8 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageLFPAK33Package / CaseSOT-1210, 8-LFPAK33 (5-Lead)	Gate Charge (Qg) (Max) @ Vgs	23.8nC @ 10V
FET Feature - TSW (Tc)  Rds On (Max) @ Id, Vgs 8 mOhm @ 20A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package LFPAK33  Package / Case SOT-1210, 8-LFPAK33 (5-Lead)	Input Capacitance (Ciss) (Max) @ Vds	1567pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  8 mOhm @ 20A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  LFPAK33  Package / Case  SOT-1210, 8-LFPAK33 (5-Lead)	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs8 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageLFPAK33Package / CaseSOT-1210, 8-LFPAK33 (5-Lead)	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  LFPAK33  Package / Case  SOT-1210, 8-LFPAK33 (5-Lead)	Power Dissipation (Max)	75W (Tc)
Mounting Type Surface Mount Supplier Device Package LFPAK33 Package / Case SOT-1210, 8-LFPAK33 (5-Lead)	Rds On (Max) @ Id, Vgs	8 mOhm @ 20A, 10V
Supplier Device Package LFPAK33 Package / Case SOT-1210, 8-LFPAK33 (5-Lead)	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case SOT-1210, 8-LFPAK33 (5-Lead)	Mounting Type	Surface Mount
	Supplier Device Package	LFPAK33
Report errors?	Package / Case	SOT-1210, 8-LFPAK33 (5-Lead)
		Report errors?

## **BUK7M8R0-40EX 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.

## **BUK7M8R0-40EX Payment Methods**





















## **BUK7M8R0-40EX Shipping Methods**













If you have any question about BUK7M8R0-40EX, please do not hesitate to contact us!

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