



## BUK7907-55ATE,127 Information



For Reference Only

**Part Number** BUK7907-55ATE,127 **Manufacturer** Nexperia USA Inc.

**Category** Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 55V 75A TO220AB

Package TO-220-5

For the pricing/inventory/lead time, please contact

us

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# **BUK7907-55ATE,127 Specifications**

Manufacturer Part NumberBUK7907-55ATE,127ManufacturerNexperia USA Inc.CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-220-5SeriesAutomotive, AEC-Q101, TrenchMOS?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)55VCurrent - Continuous Drain (Id) @ 25°C75A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 1mAGate Charge (Qg) (Max) @ Vgs116nC @ 10VInput Capacitance (Ciss) (Max) @ Vds4500pF @ 25VVgs (Max)±20VFET FeatureTemperature Sensing Diode		
Category  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  Package  TO-220-5  Series  Automotive, AEC-Q101, TrenchMOS?  FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  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)  ±20V	Manufacturer Part Number	BUK7907-55ATE,127
Transistors - FETs, MOSFETs - Single  Package TO-220-5  Series Automotive, AEC-Q101, TrenchMOS?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  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)  ±20V	Manufacturer	Nexperia USA Inc.
Package  Series  Automotive, AEC-Q101, TrenchMOS?  FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  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)  TO-220-5  Automotive, AEC-Q101, TrenchMOS?  N-Channel  MOSFET (Metal Oxide)  55V  75A (Tc)  10V  4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  116nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V	Category	Discrete Semiconductor Products
Series Automotive, AEC-Q101, TrenchMOS?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 55V  Current - Continuous Drain (Id) @ 25°C 75A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 116nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 4500pF @ 25V  Vgs (Max) ±20V		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  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)  +20V	Package	TO-220-5
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  75A (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)  ### MOSFET (Metal Oxide)  ### 15V  ### 1	Series	Automotive, AEC-Q101, TrenchMOS?
Drain to Source Voltage (Vdss)       55V         Current - Continuous Drain (Id) @ 25°C       75A (Tc)         Drive Voltage (Max Rds On, Min Rds On)       10V         Vgs(th) (Max) @ Id       4V @ 1mA         Gate Charge (Qg) (Max) @ Vgs       116nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       4500pF @ 25V         Vgs (Max)       ±20V	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C       75A (Tc)         Drive Voltage (Max Rds On, Min Rds On)       10V         Vgs(th) (Max) @ Id       4V @ 1mA         Gate Charge (Qg) (Max) @ Vgs       116nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       4500pF @ 25V         Vgs (Max)       ±20V	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)       10V         Vgs(th) (Max) @ Id       4V @ 1mA         Gate Charge (Qg) (Max) @ Vgs       116nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       4500pF @ 25V         Vgs (Max)       ±20V	Drain to Source Voltage (Vdss)	55V
Vgs(th) (Max) @ Id       4V @ 1mA         Gate Charge (Qg) (Max) @ Vgs       116nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       4500pF @ 25V         Vgs (Max)       ±20V	Current - Continuous Drain (Id) @ 25°C	75A (Tc)
Gate Charge (Qg) (Max) @ Vgs       116nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       4500pF @ 25V         Vgs (Max)       ±20V	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds 4500pF @ 25V Vgs (Max) ±20V	Vgs(th) (Max) @ Id	4V @ 1mA
Vgs (Max) ±20V	Gate Charge (Qg) (Max) @ Vgs	116nC @ 10V
	Input Capacitance (Ciss) (Max) @ Vds	4500pF @ 25V
FET Feature Temperature Sensing Diode	Vgs (Max)	±20V
	FET Feature	Temperature Sensing Diode
Power Dissipation (Max) 272W (Tc)	Power Dissipation (Max)	272W (Tc)
Rds On (Max) @ Id, Vgs 7 mOhm @ 50A, 10V	Rds On (Max) @ Id, Vgs	7 mOhm @ 50A, 10V
Operating Temperature $-55^{\circ}\text{C} \sim 175^{\circ}\text{C} \text{ (TJ)}$	Operating Temperature	-55°C ~ 175°C (TJ)
Mounting Type Through Hole	Mounting Type	Through Hole
Supplier Device Package TO-220-5	Supplier Device Package	TO-220-5
Package / Case TO-220-5	Package / Case	TO-220-5
Report errors?		Report errors?

### **BUK7907-55ATE,127 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.

### **BUK7907-55ATE,127 Payment Methods**



















## **BUK7907-55ATE,127 Shipping Methods**













If you have any question about BUK7907-55ATE,127, please do not hesitate to contact us!

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