

# BUK7225-55A,118 Information



For Reference Only

**Part Number** BUK7225-55A,118 **Manufacturer** Nexperia USA Inc.

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 55V 43A DPAK

Package TO-252-3, DPak (2 Leads + Tab), SC-63

For the pricing/inventory/lead time, please contact

us

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



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## **BUK7225-55A,118 Specifications**

Manufacturer Part Number         BUK7225-55A,118           Manufacturer         Nexperia USA Inc.           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           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         43A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ ImA           Gate Charge (Qg) (Max) @ Vgs         -           Input Capacitance (Ciss) (Max) @ Vds         1310pF @ 25V           Vgs (Max)         ± 20V           FET Feature         -           Power Dissipation (Max)         94W (Tc)           Rds On (Max) @ Id, Vgs         25 mOhm @ 25A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63           Report errors?		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-252-3, DPak (2 Leads + Tab), SC-63 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 43A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ ImA Gate Charge (Qg) (Max) @ Vgs - Input Capacitance (Ciss) (Max) @ Vds 1310pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 94W (Tc) Rds On (Max) @ Id, Vgs 25 mOhm @ 25A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package DPAK Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	BUK7225-55A,118
Package         To-252-3, DPak (2 Leads + Tab), SC-63           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         43A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         -           Input Capacitance (Ciss) (Max) @ Vds         1310pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         94W (Tc)           Rds On (Max) @ Id, Vgs         25 mOhm @ 25A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Nexperia USA Inc.
Package       TO-252-3, DPak (2 Leads + Tab), SC-63         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       43A (Tc)         Drive Voltage (Max Rds On, Min Rds On)       10V         Vgs(th) (Max) @ Id       4V @ ImA         Gate Charge (Qg) (Max) @ Vgs       -         Input Capacitance (Ciss) (Max) @ Vds       1310pF @ 25V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       94W (Tc)         Rds On (Max) @ Id, Vgs       25 mOhm @ 25A, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       DPAK         Package / Case       TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series Automotive, AEC-Q101, TrenchMOS?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  55V  Current - Continuous Drain (Id) @ 25°C 43A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs -  Input Capacitance (Ciss) (Max) @ Vds 1310pF @ 25V  Vgs (Max) ±20V  FET Feature  Power Dissipation (Max) 94W (Tc)  Rds On (Max) @ Id, Vgs 25 mOhm @ 25A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package DPAK  Package / Case Tootinuous Prench 18C		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 55V Current - Continuous Drain (Id) @ 25°C 43A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 1mA Gate Charge (Qg) (Max) @ Vgs - Input Capacitance (Ciss) (Max) @ Vds 1310pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 94W (Tc) Rds On (Max) @ Id, Vgs 25 mOhm @ 25A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package DPAK Package / Case Too. 252-3, DPak (2 Leads + Tab), SC-63	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  43A (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)  **EUOV**  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  **Operating Temperature  **Operating Type  Surface Mount  Supplier Device Package  Package / Case  **MOSFET (Metal Oxide)  55V  MOSFET (Metal Oxide)  55V  43A (Tc)  44V @ 1mA  45DV  55V  55V  Current - Continuous Drain (Id) @ 25V  **ET Feature	Series	Automotive, AEC-Q101, TrenchMOS?
Drain to Source Voltage (Vdss)55VCurrent - Continuous Drain (Id) @ 25°C43A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 1mAGate Charge (Qg) (Max) @ Vgs-Input Capacitance (Ciss) (Max) @ Vds1310pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)94W (Tc)Rds On (Max) @ Id, Vgs25 mOhm @ 25A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C 43A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs -  Input Capacitance (Ciss) (Max) @ Vds 1310pF @ 25V  Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 94W (Tc)  Rds On (Max) @ Id, Vgs 25 mOhm @ 25A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package DPAK  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	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)  ### 20V  ### 20V  ### 75 Feature  Power Dissipation (Max)  ### 4W (Tc)  ### 25 m Ohm @ 25A, 10V  ### 25 operating Temperature  ### 25 m Ohm @ 25A, 10V  ### 25 m Ohm @ 25 m Ohm @ 25A, 10V  ### 25 m Ohm @ 25 m O	Drain to Source Voltage (Vdss)	55V
Vgs(th) (Max) @ Id 4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs -  Input Capacitance (Ciss) (Max) @ Vds 1310pF @ 25V  Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 94W (Tc)  Rds On (Max) @ Id, Vgs 25 mOhm @ 25A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package DPAK  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	43A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  +20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  25 mOhm @ 25A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  1310pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  94W (Tc)  Rds On (Max) @ Id, Vgs  25 mOhm @ 25A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	4V @ 1mA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)94W (Tc)Rds On (Max) @ Id, Vgs25 mOhm @ 25A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	-
FET Feature - Power Dissipation (Max) 94W (Tc) Rds On (Max) @ Id, Vgs 25 mOhm @ 25A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package DPAK Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	1310pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  25 mOhm @ 25A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs25 mOhm @ 25A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	94W (Tc)
Mounting Type Surface Mount  Supplier Device Package DPAK Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	25 mOhm @ 25A, 10V
Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	DPAK
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

### BUK7225-55A,118 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.

### **BUK7225-55A,118 Payment Methods**





















### **BUK7225-55A,118 Shipping Methods**













If you have any question about BUK7225-55A,118, please do not hesitate to contact us!

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