



#### NP15P04SLG-E1-AY Information



For Reference Only

Part Number NP15P04SLG-E1-AY

ManufacturerRenesas Electronics AmericaCategoryDiscrete Semiconductor Products<br/>Transistors - FETs, MOSFETs - Single

**Description** MOSFET P-CH 40V 15A TO-252

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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## NP15P04SLG-E1-AY Specifications

Manufacturer Part Number         NP15P04SLG-E1-AY           Manufacturer         Renesas Electronics America           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         40V           Current - Continuous Drain (Id) @ 25°C         15A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         23nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1100pF @ 10V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.2W (Ta), 30W (Tc)           Rds On (Max) @ Id, Vgs         40 mOhm @ 7.5A, 10V           Operating Temperature         175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252 (MP-3ZK)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)40VCurrent - Continuous Drain (Id) @ 25°C15A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs23nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1100pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.2W (Ta), 30W (Tc)Rds On (Max) @ Id, Vgs40 mOhm @ 7.5A, 10VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252 (MP-3ZK)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	NP15P04SLG-E1-AY
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         40V           Current - Continuous Drain (Id) @ 25°C         15A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         23nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1100pF @ 10V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.2W (Ta), 30W (Tc)           Rds On (Max) @ Id, Vgs         40 mohm @ 7.5A, 10V           Operating Temperature         175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252 (MP-3ZK)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Renesas Electronics America
Package TO-252-3, DPak (2 Leads + Tab), SC-63  Series - FET Type P-Channel Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 40V  Current - Continuous Drain (Id) @ 25°C 15A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V  Vgs(th) (Max) @ Id 2.5V @ 250µA  Gate Charge (Qg) (Max) @ Vgs 23nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 1100pF @ 10V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 1.2W (Ta), 30W (Tc)  Rds On (Max) @ Id, Vgs 40 mOhm @ 7.5A, 10V  Operating Temperature 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-252 (MP-3ZK)  Package / Case Torus 125 more 125	Category	Discrete Semiconductor Products
Series-FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)40VCurrent - Continuous Drain (Id) @ 25°C15A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs23nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1100pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.2W (Ta), 30W (Tc)Rds On (Max) @ Id, Vgs40 mOhm @ 7.5A, 10VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252 (MP-3ZK)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type P-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 40V Current - Continuous Drain (Id) @ 25°C 15A (Ta) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.5V @ 250µA Gate Charge (Qg) (Max) @ Vgs 23nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1100pF @ 10V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 1.2W (Ta), 30W (Tc) Rds On (Max) @ Id, Vgs 40 mOhm @ 7.5A, 10V Operating Temperature 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252 (MP-3ZK) Package / Case Totalinuous Drain (Id) @ 25°C Power Dissipation (Max) 175°C (TJ) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology Drain to Source Voltage (Vdss) 40V Current - Continuous Drain (Id) @ 25°C 15A (Ta) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.5V @ 250μA Gate Charge (Qg) (Max) @ Vgs 23nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1100pF @ 10V Vgs (Max) +20V FET Feature - Power Dissipation (Max) 1.2W (Ta), 30W (Tc) Rds On (Max) @ Id, Vgs 40 mOhm @ 7.5A, 10V Operating Temperature 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252 (MP-3ZK) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Series	-
Drain to Source Voltage (Vdss)40VCurrent - Continuous Drain (Id) @ 25°C15A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs23nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1100pF @ 10VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.2W (Ta), 30W (Tc)Rds On (Max) @ Id, Vgs40 mOhm @ 7.5A, 10VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252 (MP-3ZK)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	P-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Cate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  40 mOhm @ 7.5A, 10V  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  TO-252 (MP-3ZK)  Package / Case  15A (Ta)  16A (Ta)  16B (ToV  175°C (10V  175°C (TJ)	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  2.5V @ 250μA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  1.2W (Ta), 30W (Tc)  Rds On (Max) @ Id, Vgs  40 mOhm @ 7.5A, 10V  Operating Temperature  175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252 (MP-3ZK)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	40V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Algorithm Temperature  Input Capacitance (Ciss) (Max) @ Vds  1100pF @ 10V  120V  1100pF @ 10V	Current - Continuous Drain (Id) @ 25°C	15A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1100pF @ 10V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  40 mOhm @ 7.5A, 10V  Operating Temperature  175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252 (MP-3ZK)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252 (MP-3ZK)  Package / Case  1100pF @ 10V  120V  40 mOhm @ 7.5A, 10V  5urface Mount  To-252 (MP-3ZK)  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	2.5V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)1.2W (Ta), 30W (Tc)Rds On (Max) @ Id, Vgs40 mOhm @ 7.5A, 10VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252 (MP-3ZK)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	23nC @ 10V
FET Feature -  Power Dissipation (Max) 1.2W (Ta), 30W (Tc)  Rds On (Max) @ Id, Vgs 40 mOhm @ 7.5A, 10V  Operating Temperature 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-252 (MP-3ZK)  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	1100pF @ 10V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  40 mOhm @ 7.5A, 10V  Operating Temperature  175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252 (MP-3ZK)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs40 mOhm @ 7.5A, 10VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252 (MP-3ZK)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-252 (MP-3ZK)  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	1.2W (Ta), 30W (Tc)
Mounting Type Surface Mount  TO-252 (MP-3ZK)  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	40 mOhm @ 7.5A, 10V
Supplier Device Package TO-252 (MP-3ZK) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	175°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	TO-252 (MP-3ZK)
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

#### NP15P04SLG-E1-AY 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.

### NP15P04SLG-E1-AY Payment Methods





















### NP15P04SLG-E1-AY Shipping Methods













If you have any question about NP15P04SLG-E1-AY, please do not hesitate to contact us!

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