



## 2SK3816-DL-1E Information



For Reference Only

Part Number 2SK3816-DL-1E Manufacturer ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 60V 40A

Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB

For the pricing/inventory/lead time, please contact

us

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



Request a Quote

# **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









# 2SK3816-DL-1E Specifications

Manufacturer Part Number         2SK3816-DL-1E           Manufacturer         ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         60V           Current - Continuous Drain (Id) @ 25°C         40A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 10V           Vgs(th) (Max) @ Id         -           Gate Charge (Qg) (Max) @ Vgs         40nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1780pF @ 20V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.65W (Ta), 50W (Tc)           Rds On (Max) @ Id, Vgs         26 mOhm @ 20A, 10V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-263-2           Package / Case         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB		
Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  Series - FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 60V  Current - Continuous Drain (Id) @ 25°C 40A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 4V, 10V  Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 40nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 1780pF @ 20V  Vgs (Max)  ±20V  FET Feature - Power Dissipation (Max) 1.65W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs 26 mOhm @ 20A, 10V  Operating Temperature Mounting Type Surface Mount  Supplier Device Package TO-263-2  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Manufacturer Part Number	2SK3816-DL-1E
Package         Tro-263-3, D2Pak (2 Leads + Tab), TO-263AB           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         60V           Current - Continuous Drain (Id) @ 25°C         40A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 10V           Vgs(th) (Max) @ Id         -           Gate Charge (Qg) (Max) @ Vgs         40nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1780pF @ 20V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.65W (Ta), 50W (Tc)           Rds On (Max) @ Id, Vgs         26 mOhm @ 20A, 10V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-263-2           Package / Case         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Manufacturer	ON Semiconductor
Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  Series - FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 60V  Current - Continuous Drain (Id) @ 25°C 40A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 4V, 10V  Vgs(th) (Max) @ Id - Gate Charge (Qg) (Max) @ Vgs 40nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 1780pF @ 20V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 1.65W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs 26 mOhm @ 20A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package 7C-263-2  Package / Case To-263-3, D2Pak (2 Leads + Tab), TO-263AB	Category	Discrete Semiconductor Products
Series - M-Channel  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 60V  Current - Continuous Drain (Id) @ 25°C 40A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 4V, 10V  Vgs(th) (Max) @ Id - Gate Charge (Qg) (Max) @ Vgs 40nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 1780pF @ 20V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 1.65W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs 26 mOhm @ 20A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-263-2  Package / Case To-263-A, D2Pak (2 Leads + Tab), TO-263AB		Transistors - FETs, MOSFETs - Single
FET Type  Rechnology  MOSFET (Metal Oxide)  MOSFET (Metal Oxide)  For in to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  40A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  40nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  1780pF @ 20V  Vgs (Max)  #20V  FET Feature  -  Power Dissipation (Max)  1.65W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs  26 mOhm @ 20A, 10V  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  TO-263-2  Package / Case  Na (Na)	Package	TO-263-3, D2Pak (2 Leads + Tab), TO-263AB
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  40A (Ta)  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  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  MOSFET (Metal Oxide)  MOSFET (Metal Oxide)  60V  40A (Ta)	Series	-
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  40A (Ta)  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  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-263-2  Package / Case  40A (Ta)  40A (Ta	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C 40A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 4V, 10V  Vgs(th) (Max) @ Id - Gate Charge (Qg) (Max) @ Vgs 40nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 1780pF @ 20V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 1.65W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs 26 mOhm @ 20A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-263-2  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Technology	MOSFET (Metal Oxide)
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  26 mOhm @ 20A, 10V  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  Ann (Max) & TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Drain to Source Voltage (Vdss)	60V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  +20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case	Current - Continuous Drain (Id) @ 25°C	40A (Ta)
Gate Charge (Qg) (Max) @ Vgs 40nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1780pF @ 20V  Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 1.65W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs 26 mOhm @ 20A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-263-2  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Drive Voltage (Max Rds On, Min Rds On)	4V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  26 mOhm @ 20A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-263-2  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Vgs(th) (Max) @ Id	-
Vgs (Max)±20VFET Feature-Power Dissipation (Max)1.65W (Ta), 50W (Tc)Rds On (Max) @ Id, Vgs26 mOhm @ 20A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-263-2Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Gate Charge (Qg) (Max) @ Vgs	40nC @ 10V
FET Feature -  Power Dissipation (Max) 1.65W (Ta), 50W (Tc)  Rds On (Max) @ Id, Vgs 26 mOhm @ 20A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-263-2  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Input Capacitance (Ciss) (Max) @ Vds	1780pF @ 20V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  26 mOhm @ 20A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-263-2  Package / Case  1.65W (Ta), 50W (Tc)  26 mOhm @ 20A, 10V  Surface Mount  To-263-2	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs26 mOhm @ 20A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-263-2Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	FET Feature	-
Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-263-2  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Power Dissipation (Max)	1.65W (Ta), 50W (Tc)
Mounting Type Surface Mount  Supplier Device Package TO-263-2  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Rds On (Max) @ Id, Vgs	26 mOhm @ 20A, 10V
Supplier Device Package TO-263-2 Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Operating Temperature	150°C (TJ)
Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Mounting Type	Surface Mount
	Supplier Device Package	TO-263-2
Report errors?	Package / Case	TO-263-3, D2Pak (2 Leads + Tab), TO-263AB
		Report errors?

#### 2SK3816-DL-1E 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.

### 2SK3816-DL-1E Payment Methods



















### 2SK3816-DL-1E Shipping Methods













If you have any question about 2SK3816-DL-1E, please do not hesitate to contact us!

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