



### STD10PF06-1 Information



For Reference Only

Part Number STD10PF06-1

Manufacturer STMicroelectronics

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET P-CH 60V 10A IPAK

Package TO-251-3 Short Leads, IPak, TO-251AA

For the pricing/inventory/lead time, please contact

us

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



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## STD10PF06-1 Specifications

Manufacturer Part Number         STD10PF06-1           Manufacturer         STMicroelectronics           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-251-3 Short Leads, IPak, TO-251AA           Series         STripFET? II           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         60V           Current - Continuous Drain (Id) @ 25°C         10A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         21nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         850pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         40W (Tc)           Rds On (Max) @ Id, Vgs         200 mOhm @ 5A, 10V           Operating Temperature         175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         I-Pak           Package / Case         TO-251-3 Short Leads, IPak, TO-251AA		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-251-3 Short Leads, IPak, TO-251AASeriesSTripFET? IIFET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250µAGate Charge (Qg) (Max) @ Vgs21nC @ 10VInput Capacitance (Ciss) (Max) @ Vds850pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 5A, 10VOperating Temperature175°C (TJ)Mounting TypeThrough HoleSupplier Device Package1-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	Manufacturer Part Number	STD10PF06-1
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Series STripFET? II  FET Type P-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C 10A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 4V @ 250µA  Gate Charge (Qg) (Max) @ Vgs 21nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 850pF @ 25V  Vgs (Max) ±20V  FET Feature  Power Dissipation (Max) 40W (Tc)  Rds On (Max) @ Id, Vgs 200 mOhm @ 5A, 10V  Operating Temperature 175°C (TJ)  Mounting Type Through Hole  Supplier Device Package 1-Pak  Package / Case 10V		Transistors - FETs, MOSFETs - Single
FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs21nC @ 10VInput Capacitance (Ciss) (Max) @ Vds850pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 5A, 10VOperating Temperature175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	Package	TO-251-3 Short Leads, IPak, TO-251AA
Technology 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  Mounting Type Supplier Device Package Package / Case  MOSFET (Metal Oxide)  60V  MOSFET (Metal Oxide)  60V  10A (Tc)  10A (Tc)  10V  4V @ 250µA  4V @ 250µA  850pF @ 25V  220V  850pF @ 25V  420V  Through Hole 175°C (TJ)  Through Hole 175°C (TJ)  Through Hole 175°C  170-251-3 Short Leads, IPak, TO-251AA	Series	STripFET? II
Drain to Source Voltage (Vdss)60VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs21nC @ 10VInput Capacitance (Ciss) (Max) @ Vds850pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs200 mOhm @ 5A, 10VOperating Temperature175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	FET Type	P-Channel
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Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Through Hole  Supplier Device Package  Package / Case  10V  4V @ 250μA  850pF @ 25V  25V  40V  850pF @ 25V  40V  850pF @ 25V  20V  70  Through Hole  175°C (TJ)  Through Hole  175°C (TJ)  Through Hole	Drain to Source Voltage (Vdss)	60V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  850pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  40W (Tc)  Rds On (Max) @ Id, Vgs  200 mOhm @ 5A, 10V  Operating Temperature  175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  I-Pak  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Current - Continuous Drain (Id) @ 25°C	10A (Tc)
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Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  I-Pak  Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 40W (Tc)  Rds On (Max) @ Id, Vgs 200 mOhm @ 5A, 10V  Operating Temperature 175°C (TJ)  Mounting Type Through Hole  Supplier Device Package I-Pak  Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Gate Charge (Qg) (Max) @ Vgs	21nC @ 10V
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Rds On (Max) @ Id, Vgs200 mOhm @ 5A, 10VOperating Temperature175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageI-PakPackage / CaseTO-251-3 Short Leads, IPak, TO-251AA	FET Feature	-
Operating Temperature 175°C (TJ)  Mounting Type Through Hole  Supplier Device Package I-Pak  Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Power Dissipation (Max)	40W (Tc)
Mounting Type Through Hole Supplier Device Package I-Pak Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Rds On (Max) @ Id, Vgs	200 mOhm @ 5A, 10V
Supplier Device Package  I-Pak Package / Case  TO-251-3 Short Leads, IPak, TO-251AA	Operating Temperature	175°C (TJ)
Package / Case TO-251-3 Short Leads, IPak, TO-251AA	Mounting Type	Through Hole
	Supplier Device Package	I-Pak
Report errors?	Package / Case	TO-251-3 Short Leads, IPak, TO-251AA
		Report errors?

#### STD10PF06-1 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.

### **STD10PF06-1 Payment Methods**



















### STD10PF06-1 Shipping Methods













If you have any question about STD10PF06-1, please do not hesitate to contact us!

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