



### **APT43M60L Information**



For Reference Only

Part Number APT43M60L

Manufacturer Microsemi Corporation

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 600V 45A TO-264

Package TO-264-3, TO-264AA

For the pricing/inventory/lead time, please contact

us

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



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## **APT43M60L Specifications**

Manufacturer Part Number         APT43M60L           Manufacturer         Microsemi Corporation           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-264-3, TO-264AA           Series         POWER MOS 8?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         600V           Current - Continuous Drain (Id) @ 25°C         45A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 2.5mA           Gate Charge (Qg) (Max) @ Vgs         215nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         \$590pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         780W (Tc)           Rds On (Max) @ Id, Vgs         150 mOhm @ 21A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264 [L]           Package / Case         TO-264-3, TO-264AA		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-264-3, TO-264AA Series POWER MOS 8? FET Type N-Channel Technology MOSFET (Metal Oxide) Toain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Sty @ 2.5mA Gate Charge (Qg) (Max) @ Vgs 115nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 8590pF @ 25V Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 150 mOhm @ 21A, 10V Operating Temperature Mounting Type Through Hole Supplier Device Package TO-264 [L] Package / Case	Manufacturer Part Number	APT43M60L
Package         TO-264-3, TO-264AA           Series         POWER MOS 8?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         600V           Current - Continuous Drain (Id) @ 25°C         45A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 2.5mA           Gate Charge (Qg) (Max) @ Vgs         215nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         8590pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         780W (Tc)           Rds On (Max) @ Id, Vgs         150 mOhm @ 21A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264 [L]           Package / Case         TO-264-3, TO-264AA	Manufacturer	Microsemi Corporation
Package         TO-264-3, TO-264AA           Series         POWER MOS 8?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         600V           Current - Continuous Drain (Id) @ 25°C         45A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 2.5mA           Gate Charge (Qg) (Max) @ Vgs         215nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         8590pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         780W (Tc)           Rds On (Max) @ Id, Vgs         150 mOhm @ 21A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264 [L]           Package / Case         TO-264-3, TO-264AA	Category	Discrete Semiconductor Products
Series POWER MOS 8?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 600V  Current - Continuous Drain (Id) @ 25°C 45A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 5V @ 2.5mA  Gate Charge (Qg) (Max) @ Vgs 215nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 8590pF @ 25V  Vgs (Max) ±30V  FET Feature  Power Dissipation (Max) 780W (Tc)  Rds On (Max) @ Id, Vgs 150 mOhm @ 21A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Through Hole  Supplier Device Package TO-264 [L]  Package / Case Too'c (TJ)-150 mOhm @ 100 mode (To) (To) (To) (To) (To) (To) (To) (To)		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 600V Current - Continuous Drain (Id) @ 25°C 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 5V @ 2.5mA Gate Charge (Qg) (Max) @ Vgs 215nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 8590pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 780W (Tc) Rds On (Max) @ Id, Vgs 150 mOhm @ 21A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264 [L] Package / Case Tore Towns	Package	TO-264-3, TO-264AA
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  45A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  SV @ 2.5mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Dreating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264 [L]  Package / Case  MOSFET (Metal Oxide)  600V  45A (Tc)  45A (	Series	POWER MOS 8?
Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C45A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 2.5mAGate Charge (Qg) (Max) @ Vgs215nC @ 10VInput Capacitance (Ciss) (Max) @ Vds8590pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)780W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 21A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 [L]Package / CaseTO-264-3, TO-264AA	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Sv @ 2.5mA  Gate Charge (Qg) (Max) @ Vgs  115nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  8590pF @ 25V  Vgs (Max)  ### ### ### ### #### ###############	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  5V @ 2.5mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  150 mOhm @ 21A, 10V  Operating Temperature  Supplier Device Package  TO-264 [L]  Package / Case  10V  8590pF @ 25V  215nC @ 10V  8590pF @ 25V  25V  25V  25V  25V  25V  25V  25V	Drain to Source Voltage (Vdss)	600V
Vgs(th) (Max) @ Id       5V @ 2.5mA         Gate Charge (Qg) (Max) @ Vgs       215nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       8590pF @ 25V         Vgs (Max)       ±30V         FET Feature       -         Power Dissipation (Max)       780W (Tc)         Rds On (Max) @ Id, Vgs       150 mOhm @ 21A, 10V         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Through Hole         Supplier Device Package       TO-264 [L]         Package / Case       TO-264-3, TO-264AA	Current - Continuous Drain (Id) @ 25°C	45A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  8590pF @ 25V  Vgs (Max)  ±30V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  150 mOhm @ 21A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264 [L]  Package / Case  TO-264-3, TO-264AA	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  8590pF @ 25V  Vgs (Max)  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  150 mOhm @ 21A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264 [L]  Package / Case  TO-264-3, TO-264AA	Vgs(th) (Max) @ Id	5V @ 2.5mA
Vgs (Max)±30VFET Feature-Power Dissipation (Max)780W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 21A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 [L]Package / CaseTO-264-3, TO-264AA	Gate Charge (Qg) (Max) @ Vgs	215nC @ 10V
FET Feature - Rower Dissipation (Max) 780W (Tc)  Rds On (Max) @ Id, Vgs 150 mOhm @ 21A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Through Hole  Supplier Device Package TO-264 [L]  Package / Case TO-264-3, TO-264AA	Input Capacitance (Ciss) (Max) @ Vds	8590pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  150 mOhm @ 21A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264 [L]  Package / Case  TO-264-3, TO-264AA	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs150 mOhm @ 21A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 [L]Package / CaseTO-264-3, TO-264AA	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264 [L]  Package / Case  TO-264-3, TO-264AA	Power Dissipation (Max)	780W (Tc)
Mounting Type Through Hole Supplier Device Package TO-264 [L] Package / Case TO-264-3, TO-264AA	Rds On (Max) @ Id, Vgs	150 mOhm @ 21A, 10V
Supplier Device Package TO-264 [L] Package / Case TO-264-3, TO-264AA	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-264-3, TO-264AA	Mounting Type	Through Hole
	Supplier Device Package	TO-264 [L]
Report errors?	Package / Case	TO-264-3, TO-264AA
		Report errors?

#### **APT43M60L 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.

## **APT43M60L Payment Methods**



















## **APT43M60L Shipping Methods**













If you have any question about APT43M60L, please do not hesitate to contact us!

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