

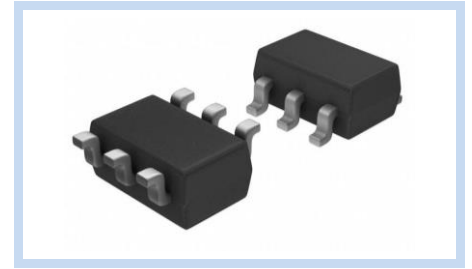
MOSFET SOT-23-6L Package

MFT-S236 series

MERITEK

FEATURE

- Operating and Storage Temperature: -50°C ~ +150°C
- Fast Switching Characteristics
- Improved dv/dt Capability



PART NUMBERING SYSTEM

MFT **4** **N** **5** **S236S**
(1) (2) (3) (4) (5)

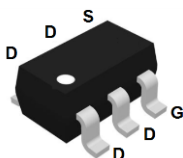


No	Item	Code	Part Description	Series Reference
(1)	Meritek Series	MFT	Meritek MOSFET Series	Surface Mount Type
(2)	Voltage Rating	4	4: 40V	Drain-Source Voltage, 10:100V
(3)	FET Type	N	N: Single N Channel	P-Channel, Dual N-Channel, Dual N+P-Channel MOSFET
(4)	Current Rating	5	5: 5A	Continuous Drain Current, T _C =25°C
(5)	Internal Code	S236S	Internal Control Reference	Package or Project Reference

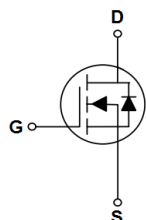
SURFACE MOUNT MOSFET PACKAGE REFERENCE TABLE

Series	FET Type	Channel/ Feature	Continuous Drain Current (I _b) @ 25°C	R _{DS(ON)} Max. @ 4.5 V _{GS}	Power Dissipation (P _D) @25°C	Drain to Source Voltage (V _{DS})
MFT(N)-S236	N	Single	1.4 ~ 6.5A	34 ~ 520mΩ	1.56W	30V, 40V, 150V
MFT(P)-S236	P	Single	4.1 ~ 6.5A	26 ~ 100mΩ	1.56W	-20V, -30V
MFT(P)-S236E	P	Single/ESD	5.8A	33mΩ	1.56W	-20V
MFT(2N)-S236	N+N	Dual	1.5~3.6A	60~340mΩ	1.25W	20V, 100V
MFT(NP)-S236	N+P	Dual	2.5 ~ 4A	40 ~ 100mΩ	1.25W, 2W	-20V, 20V, -30V, 30V

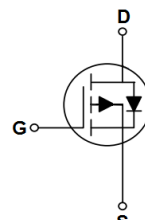
PIN CONFIGURATION



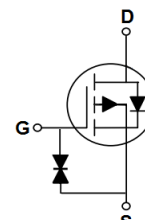
SOT-23-6L



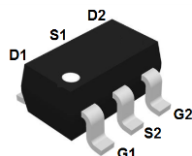
Single N Type



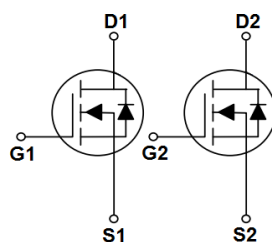
Single P Type



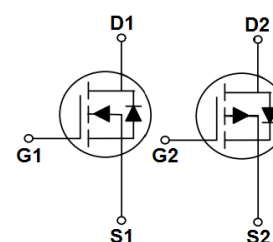
Single P Type ESD



SOT-23-6L



Dual N Type



Dual N+P Type

MOSFET

SOT-23-6L Package

MFT-S236 series

MERITEK

ELECTRICAL CHARACTERISTICS

MFT(N)-S236 Series – Single N Channel Type

Part Number	V _{DS} (V)	I _D (A)		V _{GS} (V)	R _{DS(ON)} (mΩ) max. at V _{GS}		Q _g (nC)		CISS (pF)	P _D (W) @25°C	T _s , T _J (°C)
		25°C	100°C		10V	4.5V	10V	4.5V			
MFT3N6A5S236S	30	6.5	4.1	±20	19/24	25/34	-	4.1	345	1.56	-55 ~ +150
MFT4N5S236S	40	5	3	±20	28/35	38/45	-	5.2	420	1.56	-55 ~ +150
MFT15N1A4S236S	150	1.4	0.88	±20	380/480	410/520	8.1	-	350	1.56	-50 ~ +150

MFT(P)-S236 Series – Single P Channel Type

Part Number	V _{DS} (V)	I _D (A)		V _{GS} (V)	R _{DS(ON)} (mΩ) max. at V _{GS}		Q _g (nC)		CISS (pF)	P _D (W) @25°C	T _s , T _J (°C)
		25°C	100°C		10V	4.5V	10V	4.5V			
MFT2P6A5S236S	-20	6.5	4.1	±10	-	21/26	-	19.5	1670	1.56	-55 ~ +150
MFT3PS236S	-30	5.5	-	±20	18.5/23	28/37	24.5	-	1250	1.25	-55 ~ +150
MFT3P5A1S236S	-30	5.1	3.2	±20	27/32	38/46	-	8	757	1.56	-55 ~ +150
MFT3P4A1S236S	-30	4.1	2.6	±20	47/65	75/100	-	5.1	560	1.56	-55 ~ +150

MFT(P)-S236E Series – Single P Channel ESD Type

Part Number	V _{DS} (V)	I _D (A)		V _{GS} (V)	R _{DS(ON)} (mΩ) max. at V _{GS}		Q _g (nC)		CISS (pF)	P _D (W) @25°C	T _s , T _J (°C)
		25°C	100°C		10V	4.5V	10V	4.5V			
MFT2P5A8S236ES	-20	5.8	3.7	±10	-	28/33	-	16.1	1440	1.56	-55 ~ +150

MFT(2N)-S236 Series – Dual N Channel Type

Part Number	V _{DS} (V)	I _D (A)		V _{GS} (V)	R _{DS(ON)} (mΩ) max. at V _{GS}		Q _g (nC)		CISS (pF)	P _D (W) @25°C	T _s , T _J (°C)
		25°C	100°C		10V	4.5V	10V	4.5V			
MFT22N3A6S236S	20	3.6	-	±10	-	50/60	-	3.6	180	1.25	-55 ~ +150
MFT102N1A5S236S	100	1.5	-	±20	270/330	280/340	9	-	492	1.56	-55 ~ +150

MFT(NP)-S236 Series – Dual N+P Channel Type

Part Number	V _{DS} (V)	I _D (A)		V _{GS} (V)	R _{DS(ON)} (mΩ) max. at V _{GS}		Q _g (nC)		CISS (pF)	P _D (W) @25°C	T _s , T _J (°C)
		25°C	100°C		10V	4.5V	10V	4.5V			
MFT2NP3A8S236S	20	3.8	2.3	±10	-	30/40	-	5.8	315	1.25	-55 ~ +150
	-20	2.5	1.5	±10	-	82/100	-	4.8	350	1.25	-55 ~ +150
MFT3NP4S236S	30	4	2.5	±20	22/30	35/46	-	4.1	345	2	-55 ~ +150
	-30	3	1.8	±20	45/65	65/90	-	5	420	2	-55 ~ +150

Note:

1. TA=25°C unless otherwise specified. 2. PD is Power Dissipation Derate above 25°C.
- *Specifications subject to change without notice.