

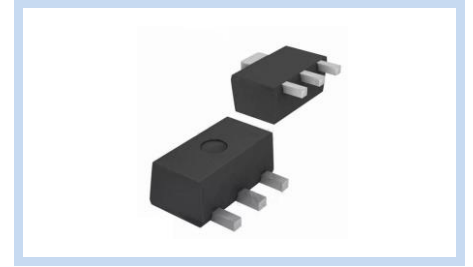
MOSFET SOT-89 Package

MFT-S89 series

MERITEK

FEATURE

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



PART NUMBERING SYSTEM

MFT 3 N 7A5 S89S
 (1) (2) (3) (4) (5)

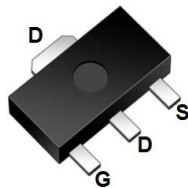


No	Item	Code	Part Description	Series Reference
(1)	Meritek Series	MFT	Meritek MOSFET Series	Surface Mount Type
(2)	Voltage Rating	3	3: 30V	Drain-Source Voltage, 10:100V
(3)	FET Type	N	N: Single N Channel	N-Channel MOSFET
(4)	Current Rating	7A5	7A5: 7.5A	Continuous Drain Current, T _C =25°C
(5)	Internal Code	S89S	Internal Control Reference	Package or Project Reference

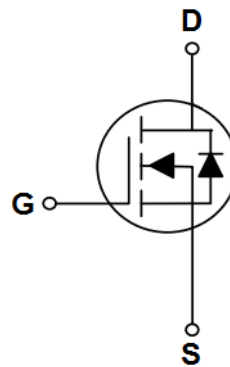
SURFACE MOUNT MOSFET PACKAGE REFERENCE TABLE

Series	FET Type	Channel/ Feature	Continuous Drain Current (I _D) @ 25°C	R _{DS(ON)} Max. @ 4.5 V _{GS}	Power Dissipation (P _D) @25°C	Drain to Source Voltage (V _{DS})
MFT(N)-S89	N	Single	5 ~ 7.5A	22 ~ 90mΩ	1.47 ~ 4.1W	20V, 30V, 60V

PIN CONFIGURATION



SOT89



N Type Single

MOSFET

SOT-89 Package

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MERITEK

ELECTRICAL CHARACTERISTICS

MFT(N)-S89 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)		C _{ISS} (pF)	P _D (W) @25°C	T _s , T _J (°C)
		25°C	100°C		10V	4.5V	10V	4.5V			
MFT2N5A6S89S	20	5.6	3.5	±10	-	22/26	-	7.7	535	1.47	-55 ~ +150
MFT2N6A5S89S	20	6.5	-	±16	-	17.5/22	-	5.9	775	1.47	-55 ~ +175
MFT3N6A5S89S	30	6.5	4.1	±12	27/32	29/36	-	8.4	695	1.47	-55 ~ +150
MFT3N7A5S891S	30	7.5	-	±20	13/15.5	17/22	16.7	-	750	1.47	-55 ~ +150
MFT3N7A5S892S	30	7.5	4.74	±20	19/24	25/34	-	4.1	345	4.1	-55 ~ +150
MFT6N5S89S	60	5	3.2	±20	60/75	70/90	9.3	-	500	1.79	-50 ~ +150

Note:

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