FM6050K/M

60V N-Channel Enhancement Mode MOSFET

- N-Channel:60V 50A
- $R_{DS(on)}$Typ= 10.5 mΩ @V_{GS} = 10V
- $R_{DS(on)}$Typ= 13.8 mΩ @V_{GS} = 4.5V
- Very Low On-resistance RDS(ON)
- LowCrss
- Fast switching
- 100% avalanche tested
- Improved dv/dt capability

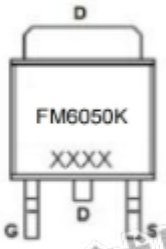
Application

- PWM Application
- Load Switch

Package



TO-252top view



Marking and pin assignment

Absolute Maximum Ratings (T_C=25℃ unless otherwise specified)

Symbol	Parameter	Rating	Units
V_{DSS}	Drain-Source Voltage	60	V
I_D	Drain Current - Continuous (T_C = 25℃)	50	A
	- Continuous (T_C = 100℃)	34	A
I_{DM}	Drain Current - Pulsed (Note 1)	200	A
V_{GSS}	Gate-Source Voltage	±20	V
E_{AS}	Single Pulsed Avalanche Energy	121	mJ
P_D	Power Dissipation (TC = 25℃)	82	W
$R_{\theta JC}$	Thermal Resistance, Junction to Case	1.52	℃/W
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to +150	℃
T_L	Maximum lead temperature for soldering purposes, 1/8" from case for 5 seconds	-55 to +150	℃

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