FM0130K/X

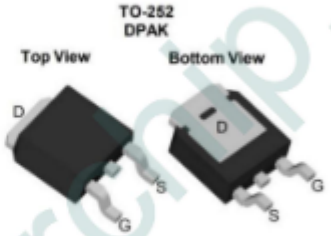
N-Channel Trench Power MOSFET

- 100V,30A
- $R_{DS(ON)}$=22.0mΩ (Typ.) @ V_{GS} =10V
- $R_{DS(ON)}$=25.0mΩ (Typ.) @ V_{GS} =4.5V
- Low on-state resistance
- Fast switching
- Lead free product

Application

- Load Switch
- PWM Application

Package



Absolute Maximum Ratings (T_C=25°C unless otherwise specified)

Symbol	Parameter	Units	Maximum
V_{DS}	Drain-Source Voltage	V	100
V_{GS}	Gate-to-Source Voltage	V	±20
I_D @ TC = 25°C	Continuous Drain Current, VGS @ 4.5V	A	30
I_D @ TC = 100°C	Continuous Drain Current, VGS @ 4.5V	A	12
I_{DM}	Pulsed Drain Current	A	120
P_D	Power Dissipation	W	58
	Derating Factor	W/°C	0.46
E_{AS}	Single pulse avalanche energy[4]	mJ	156
T_J	Operating Junction Temperature Range	°C	-55 to + 150

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