



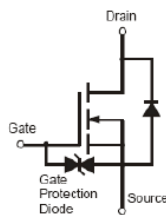
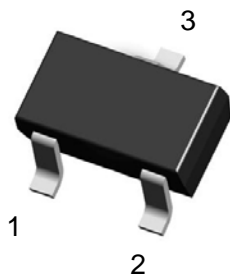
## N-Channel High Density Trench MOSFET (60V, 0.5A)

PRODUCT SUMMARY		
V <sub>DSS</sub>	I <sub>D</sub>	R <sub>DS(on)</sub> (ohm) Max
60V	0.5A	3 @ V <sub>GS</sub> = 10V, I <sub>D</sub> =0.5A
		4 @ V <sub>GS</sub> = 4.5V, I <sub>D</sub> =0.5A

### Features

- Low On-Resistance
- Low Input Capacitance
- Fast Switching Speed
- Low Input/Output Leakage
- ESD Protected Up To 2KV
- Ordering information : KF7002K (Lead (Pb) -free)

KF7002K -G (Lead (Pb) -free and halogen-free)



### KF7002K Pin Assignment & Symbol

3-Lead Plastic **SOT-23**

Pin 1: Gate

Pin 2: Source

Pin 3: Drain

### Absolute Maximum Ratings (T<sub>A</sub>=25°C, unless otherwise noted)

Symbol	Parameter	Ratings	Units
V <sub>DS</sub>	Drain-Source Voltage	60	V
V <sub>GS</sub>	Gate-Source Voltage	±20	V
I <sub>D</sub>	Drain Current <sup>a</sup>	0.5	A
I <sub>DM</sub>	Drain Current (Pulsed) <sup>b</sup>	0.8	A
P <sub>D</sub>	Total Power Dissipation @T <sub>A</sub> =25°C <sup>a</sup>	0.35	W
T <sub>J</sub> , T <sub>stg</sub>	Operating Junction and Storage Temperature Range	-55 to +150	°C
R <sub>θJA</sub>	Thermal Resistance Junction to Ambient (PCB mounted)	357	°C/W

a: Device mounted on FR-4 PCB

b: Pulse width ≤ 10μs, Duty Cycle ≤ 1%