



PRODUCT NAME : IRF520 N-Channel Mos
fet

PRICE : Rs 25.00

SKU : RM2120



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DESCRIPTION

Features

- Drain-Source Volt (Vds): 100V
- Gate-Source Volt (Vgs): 100V
- Gate-Source Volt (Vgs): 20V
- Drain Current (Id): 10A
- Power Dissipation (Ptot): 70W
- Type: N-Channel



IRF520
IRF520FI

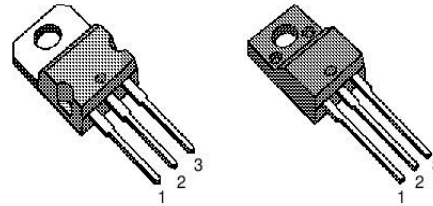
**N - CHANNEL ENHANCEMENT MODE
 POWER MOS TRANSISTORS**

TYPE	V _{DSS}	R _{DS(on)}	I _D
IRF520	100 V	< 0.27 Ω	10 A
IRF520FI	100 V	< 0.27 Ω	7 A

- TYPICAL R_{DS(on)} = 0.23 Ω
- AVALANCHE RUGGED TECHNOLOGY
- 100% AVALANCHE TESTED
- REPETITIVE AVALANCHE DATA AT 100°C
- LOW GATE CHARGE
- HIGH CURRENT CAPABILITY
- 175°C OPERATING TEMPERATURE

APPLICATIONS

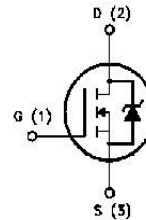
- HIGH CURRENT, HIGH SPEED SWITCHING
- SOLENOID AND RELAY DRIVERS
- REGULATORS
- DC-DC & DC-AC CONVERTERS
- MOTOR CONTROL, AUDIO AMPLIFIERS
- AUTOMOTIVE ENVIRONMENT (INJECTION, ABS, AIR-BAG, LAMPDRIVERS, Etc.)



TO-220

ISOWATT220

INTERNAL SCHEMATIC DIAGRAM



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value		Unit
		IRF520	IRF520FI	
V _{DS}	Drain-source Voltage (V _{GS} = 0)	100		V
V _{DGR}	Drain- gate Voltage (R _{GS} = 20 kΩ)	100		V
V _{GS}	Gate-source Voltage	± 20		V
I _D	Drain Current (cont.) at T _c = 25 °C	10	7	A
I _D	Drain Current (cont.) at T _c = 100 °C	7	5	A
I _{DM} (*)	Drain Current (pulsed)	40	40	A
P _{tot}	Total Dissipation at T _c = 25 °C	70	35	W
	Derating Factor	0.47	0.23	W/°C
V _{ISO}	Insulation Withstand Voltage (DC)	—	2000	V
T _{stg}	Storage Temperature	-65 to 175		°C
T _j	Max. Operating Junction Temperature	175		°C

(*) Pulse width limited by safe operating area



IRF520
IRF520FI

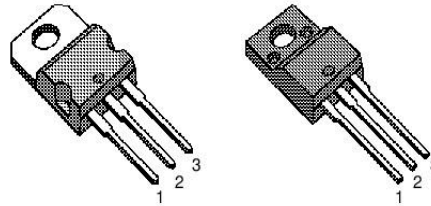
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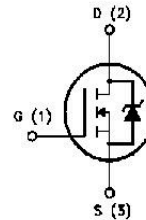
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