

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

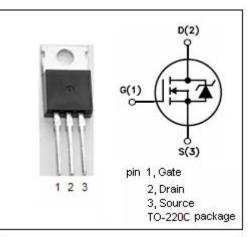
RFP70N06

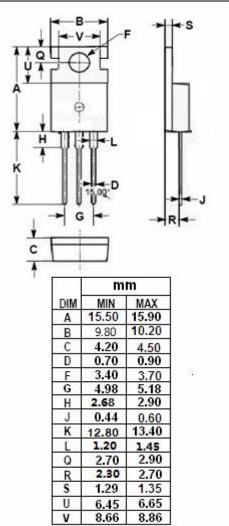
DESCRIPTION

- Drain Current $I_D=70A@T_C=25$ °C
- Drain Source Voltage-
- : V_{DSS}=60V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ = 14m Ω (Max)
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for use in applications such as swithing Regulators, switching convertes, motor drivers and Relay drivers.





ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	60	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-continuous@ TC=25℃	70	А
PD	Power Dissipation @TC=25°C	150	W
Tj	Max. Operating Junction Temperature -55~175		°C
T _{stg}	Storage Temperature Range	-55~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-a}	Thermal Resistance, Junction to Ambient	62.5	°C/W



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SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	60		V
V _{GS(TH)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I _D = 0.25mA	2	4	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 70A		0.014	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		1	uA
V _{SD}	Diode Forward Voltage	I _F = 70A; V _{GS} = 0		1.5	V

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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