

isc P-Channel MOSFET Transistor

2SJ170

DESCRIPTION

- Low Drain-Source ON Resistance
- High Forward Transfer Admittance
- Low Leakage Current
- Enhancement-Mode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

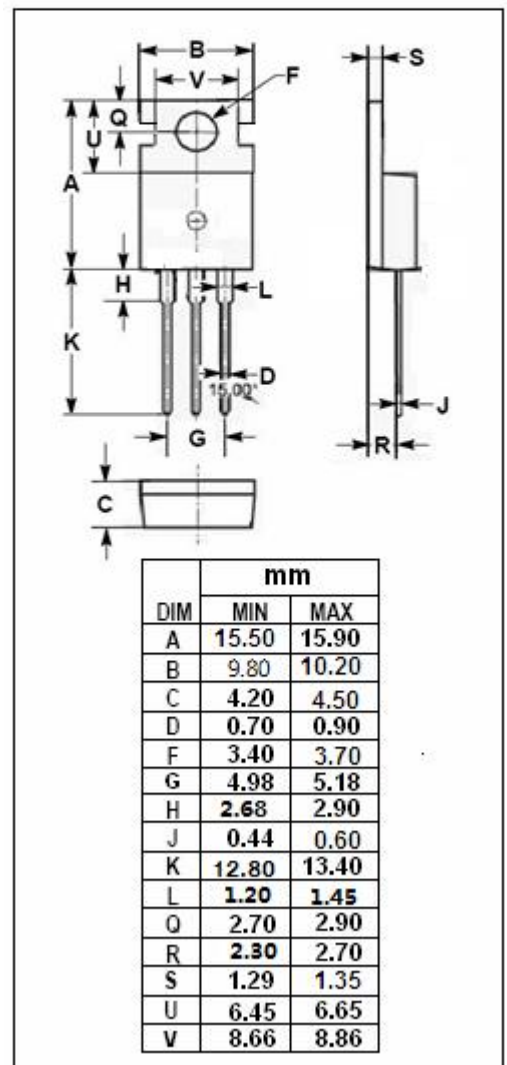
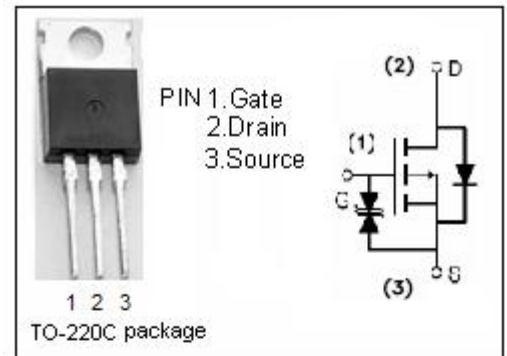
- High speed switching application
- Switching regulator ,DC-DC converter and Motor drive application

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	-80	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=37°C	-12	A
P _{tot}	Total Dissipation@TC=25°C	50	W
T _j	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.1	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	75	°C/W



isc P-Channel Mosfet Transistor**2SJ170****• ELECTRICAL CHARACTERISTICS (T_c=25°C)**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = -10mA	-50		V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = -1mA	-2.0	-4	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = -10V; I _D = -6.5A		0.35	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = -16V; V _{DS} = 0		-10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = -80V; V _{GS} = 0		-0.25	mA
V _{SD}	Diode Forward Voltage	I _F =-12 A; V _{GS} = 0		-1.1	V

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