

isc P-Channel MOSFET Transistor

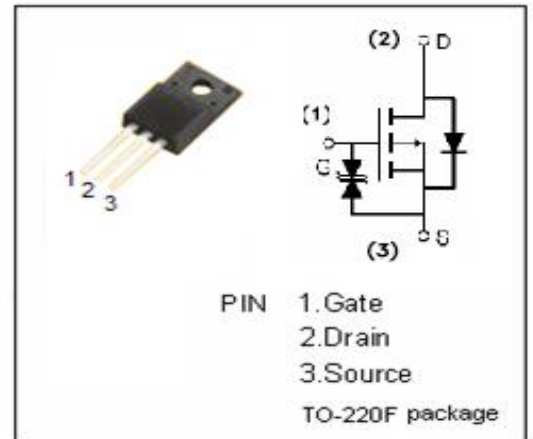
2SJ380

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

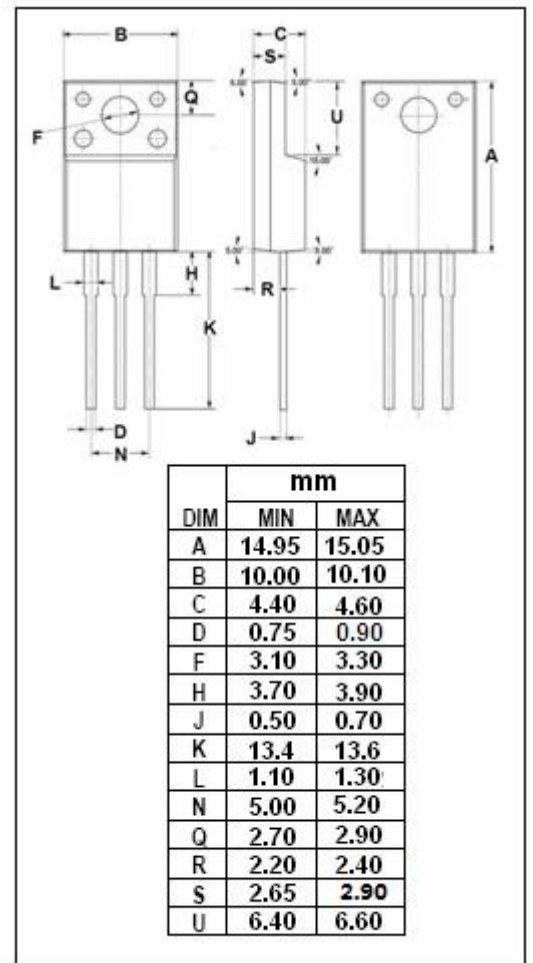
APPLICATIONS

- 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)	-100	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	35	W
T _j	Max. Operating Junction Temperature	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	3.57	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/W

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• 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	-100		V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = -1mA	-0.8	-2.0	V
R _{DS(ON)-1}	Drain-Source On-stage Resistance	V _{GS} = -10V; I _D = -6A		0.21	Ω
R _{DS(ON)-2}	Drain-Source On-stage Resistance	V _{GS} = -4V; I _D = -6A		0.32	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±16V; V _{DS} = 0		±10	μA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = -100V; V _{GS} = 0		-0.1	mA
V _{SD}	Diode Forward Voltage	I _F =-12A; V _{GS} = 0		-1.7	V

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