

**isc P-Channel MOSFET Transistor**
**2SJ221**
**DESCRIPTION**

- Low On Resistance
- High Speed Switching
- Low Drive Current
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

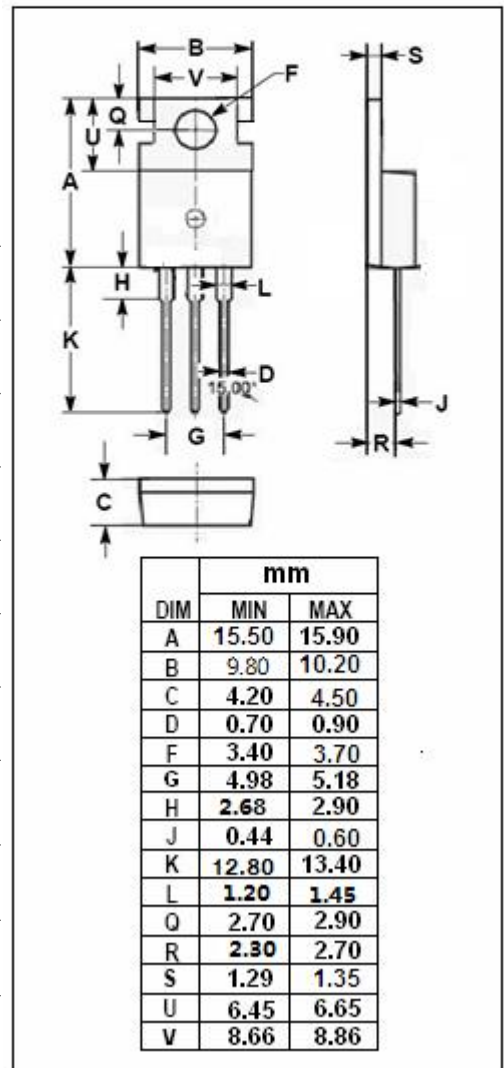
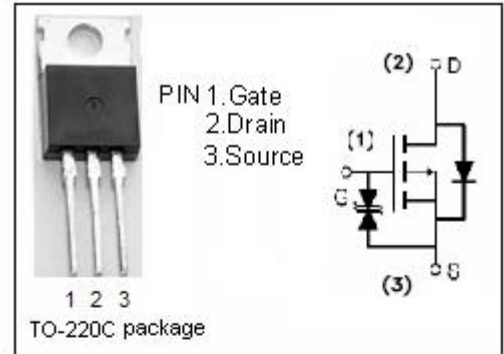
- High speed switching application

**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage (V <sub>GS</sub> =0)	-100	V
V <sub>GS</sub>	Gate-Source Voltage	±20	V
I <sub>D</sub>	Drain Current-continuous@ TC=37°C	-20	A
P <sub>tot</sub>	Total Dissipation@TC=25°C	75	W
T <sub>j</sub>	Max. Operating Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case	3.1	°C/W
R <sub>th j-a</sub>	Thermal Resistance,Junction to Ambient	75	°C/W



## isc P-Channel Mosfet Transistor

2SJ221

• ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> = 0; I <sub>D</sub> = -10mA	-100		V
V <sub>GS(TH)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; I <sub>D</sub> = -1mA	-1.0	-2	V
R <sub>DS(ON)</sub>	Drain-Source On-stage Resistance	V <sub>GS</sub> = -10V; I <sub>D</sub> = -10A		0.16	Ω
I <sub>GSS</sub>	Gate Source Leakage Current	V <sub>GS</sub> = -16V; V <sub>DS</sub> = 0		-10	uA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> = -80V; V <sub>GS</sub> = 0		-0.25	mA
V <sub>SD</sub>	Diode Forward Voltage	I <sub>F</sub> =-20 A; V <sub>GS</sub> = 0		-1.05	V

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