

isc P-Channel MOSFET Transistor

2SJ529S

• FEATURES

- With TO-220F packaging
- High speed switching
- Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

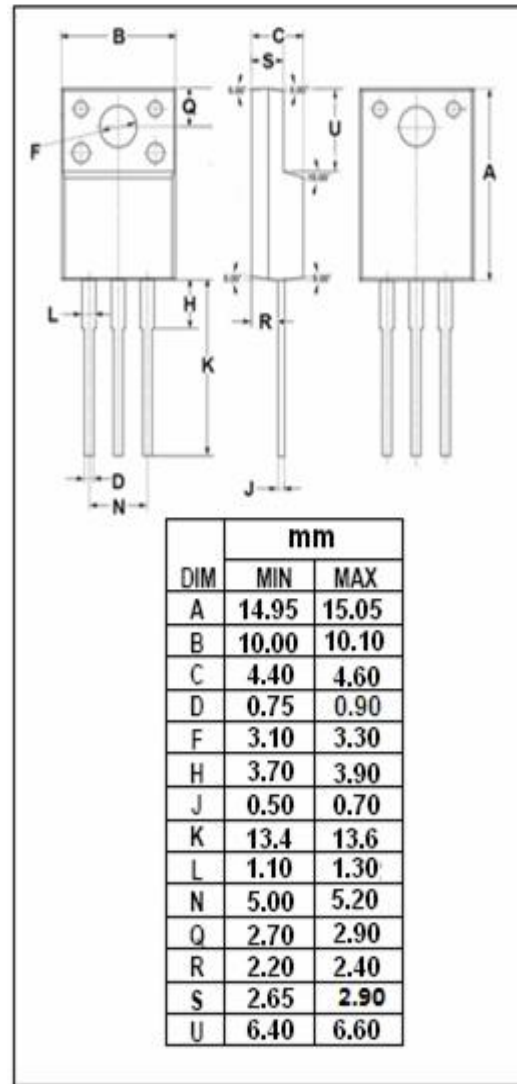
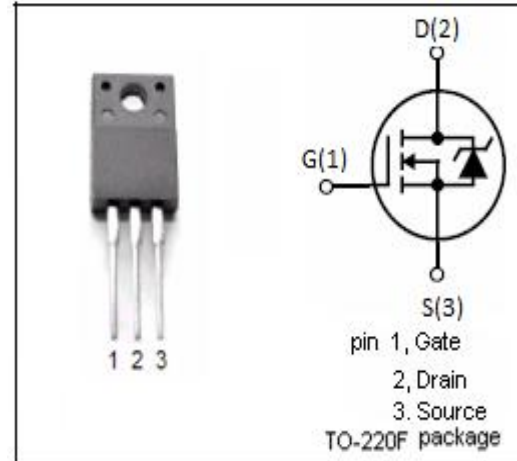
- Power supply
- DC-DC converters
- Motor control
- Switching applications

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	-60	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	-30	A
I _{DM}	Drain Current-Single Pulsed	-120	A
P _D	Total Dissipation	45	W
T _j	Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(ch-c)}	Channel-to-case thermal resistance	2.78	°C/W
R _{th(ch-a)}	Channel-to-ambient thermal resistance	62.5	°C/W



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = -10mA	-60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =-10V; I _D =-1mA	-0.8		-2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D =-15A		29	38	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±16V; V _{DS} = 0V			±10	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -60V; V _{GS} = 0V			-100	μA
V _{SDF}	Diode forward voltage	I _{SD} =-30A, V _{GS} = 0 V			-1.7	V

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