

Isc P-Channel MOSFET Transistor

2SJ477-01MR

FEATURES

- With TO-220F package
- Low input capacitance and gate charges
- Low gate input resistance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

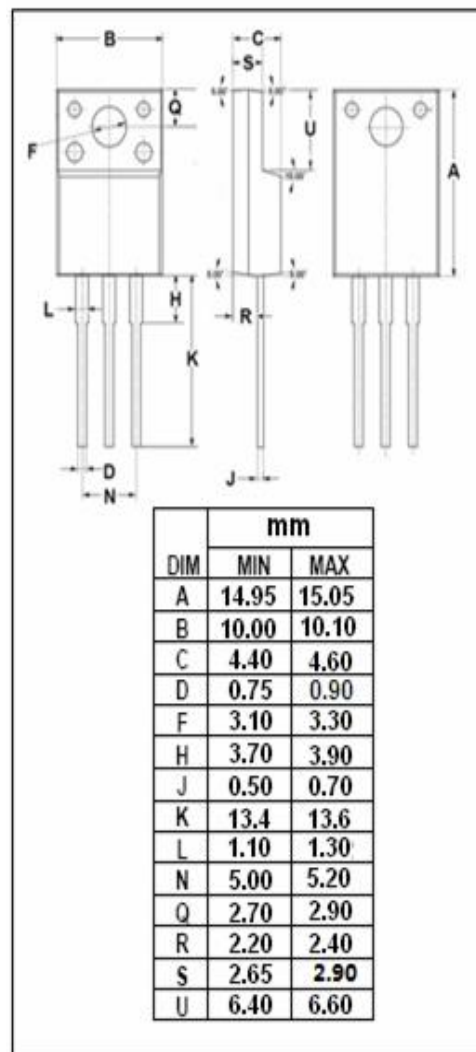
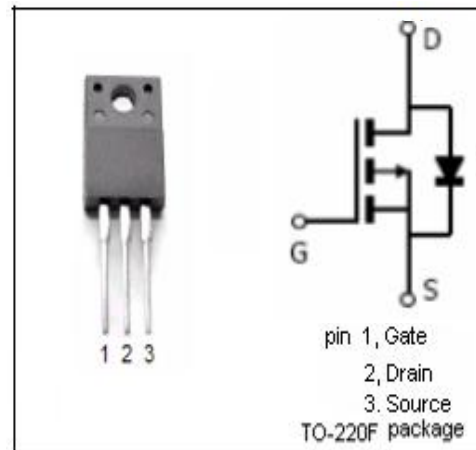
- Switching applications
- Load switch
- Power management

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	-60	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	-25	A
I_{DM}	Drain Current-Single Pulsed	-100	A
P_D	Total Dissipation @ $T_c=25^{\circ}\text{C}$	40	W
T_j	Max. Operating Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	3.13	$^{\circ}\text{C/W}$
$R_{th(ch-a)}$	Channel-to-ambient thermal resistance	62.5	$^{\circ}\text{C/W}$



Isc P-Channel MOSFET Transistor**2SJ477-01MR****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 = -1mA	-60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =-10V; I _D =-1mA	-1.0		-2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D =-12.5A		45	60	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =-60V; V _{GS} = 0V			-500	μA
V _{SDF}	Diode forward voltage	I _{SD} =-25A, V _{GS} = 0 V			-3.0	V

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