

# isc P-Channel MOSFET Transistor

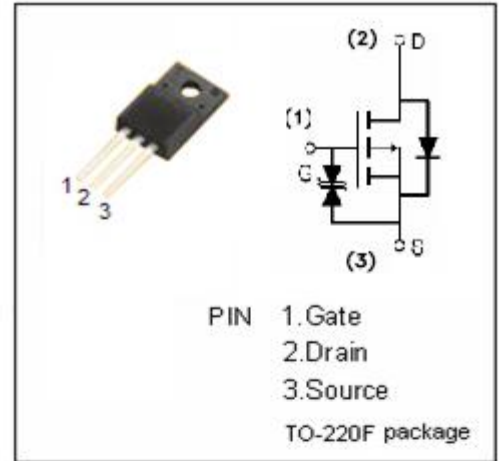
# 2SJ274

## 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

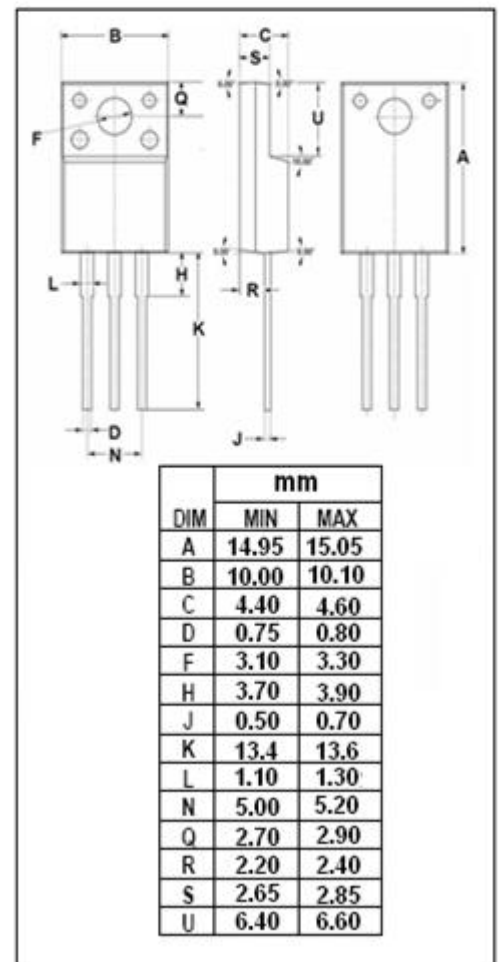
## APPLICATIONS

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



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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage ( $V_{GS}=0$ )	-100	V
$V_{GS}$	Gate-Source Voltage	$\pm 15$	V
$I_D$	Drain Current-continuous@ $TC=37^\circ\text{C}$	-12	A
$P_{tot}$	Total Dissipation@ $TC=25^\circ\text{C}$	30	W
$T_j$	Max. Operating Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	3.1	$^\circ\text{C}/\text{W}$
$R_{th\ j-a}$	Thermal Resistance,Junction to Ambient	75	$^\circ\text{C}/\text{W}$

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• 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> = -1mA	-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> = -8A		0.16	Ω
I <sub>GSS</sub>	Gate Source Leakage Current	V <sub>GS</sub> = -12V; V <sub>DS</sub> = 0		-10	uA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> = -100V; V <sub>GS</sub> = 0		-0.1	mA
V <sub>SD</sub>	Diode Forward Voltage	I <sub>F</sub> =-12A; V <sub>GS</sub> = 0		-1.5	V

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