

isc P-Channel MOSFET Transistor

2SJ374

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

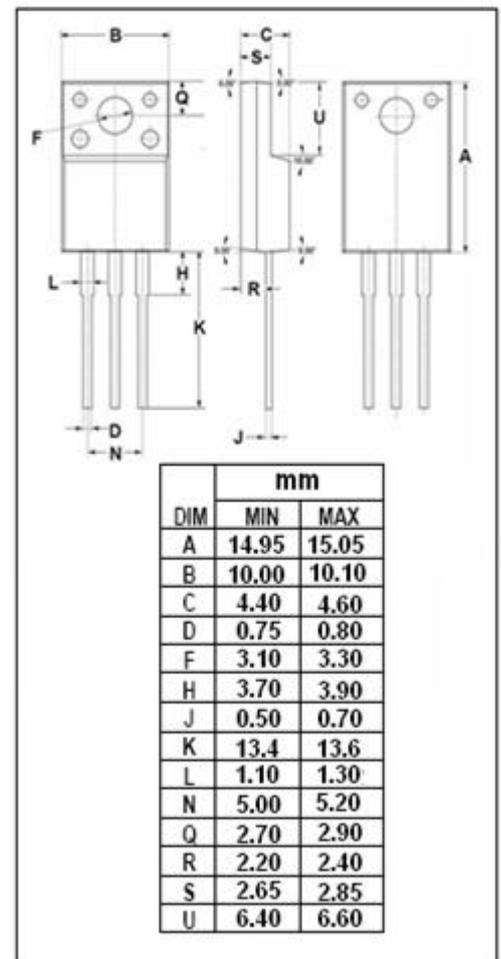
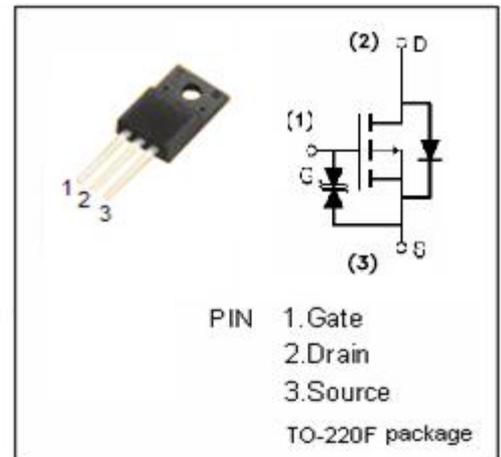
- High speed switching application
- Switching regulator ,DC-DC converter and Motor drive application

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	-60	V
V_{GS}	Gate-Source Voltage	± 15	V
I_D	Drain Current-continuous@ $TC=37^\circ\text{C}$	-20	A
P_{tot}	Total Dissipation@ $TC=25^\circ\text{C}$	40	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_c=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = -1mA	-60		V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = -1mA	-1.0	-2	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = -10V; I _D = -7.5A		0.07	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = -12V; V _{DS} = 0		-10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = -60V; V _{GS} = 0		-0.1	mA
V _{SD}	Diode Forward Voltage	I _F =-20A; V _{GS} = 0		-1.5	V

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