

isc N-Channel MOSFET Transistor

FDA24N40F

FEATURES

- Drain Current –I_D= 23A@ T_C=25°C
- Drain Source Voltage-
 - : V_{DSS}= 400V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 190m Ω (Max)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



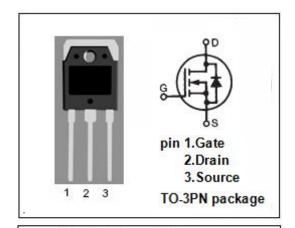
 Designed for use in high efficient switched mode power supplies.

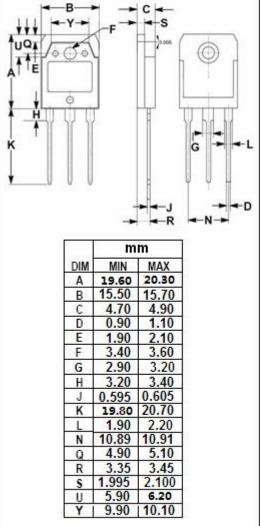
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	400	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
l _D	Drain Current-Continuous	23	Α
I _{DM}	Drain Current-Single Pluse	92	А
P _D	Total Dissipation @T _C =25°C	235	
TJ	Max. Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.53	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	400		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	3.0	5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 11.5A		190	mΩ
Igss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 400V; V _{GS} = 0		10	μА
V _{SD}	Forward On-Voltage	I _S = 23A; V _{GS} = 0		1.5	V

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