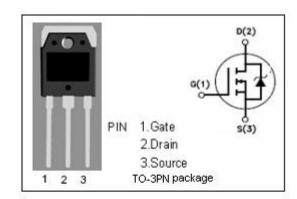


isc N-Channel MOSFET Transistor

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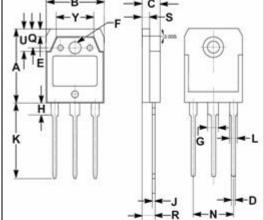
DESCRIPTION

- Drain Current –I_D=12A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=450 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

 Designed especially for high voltage, high speed applications, such as off-line switching power supplies, UPS,AC and DC motor controls, relay and solenoid drivers.



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNI T
V_{DSS}	Drain-Source Voltage (V _{GS} =0)	450	V
V_{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25℃	12	А
P _{tot}	Total Dissipation@TC=25℃	120	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

DIM	m	m
	MIN	MAX
Α	19.60	20.10
В	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
Н	3.20	3.40
J	0.595	0.605
K	20.00	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.10
Y	9.90	10.10



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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	450			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =6A		0.47	0.60	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =450V; V _{GS} = 0			1	mA
V_{SD}	Diode Forward Voltage	I _F =12A; V _{GS} =0			1.8	V
tr	Rise time			60		ns
ton	Turn-on time	V_{GS} =10V; I_D =6A; R_L =50 Ω		85		ns
tf	Fall time			80		ns
toff	Turn-off time			330		ns

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