

isc N-Channel MOSFET Transistor

FQA70N15

FEATURES

- Drain Current –I_D= 70A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 150V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 28m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

pin 1.Gate 2.Drain 3.Source TO-3PN package

DESCRIPTION

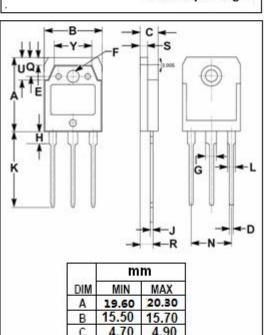
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABOOLOTE IMAXIMOM TOTTINGO(Ta 200)				
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	150	V	
V _{GS}	Gate-Source Voltage-Continuous	±25	V	
I _D	Drain Current-Continuous	70	А	
I _{DM}	Drain Current-Single Pluse	280	А	
P _D	Total Dissipation @T _C =25℃	330	w	
TJ	Max. Operating Junction Temperature	-55~175	$^{\circ}$	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.45	°C/W



50500000		
DIM	MIN	MAX
Α	19.60	20.30
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	19.80	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	6.20
Y	9.90	10.10



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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	150		V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 35A		28	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 150V; V _{GS} = 0		1.0	μ А
V _{SD}	Forward On-Voltage	I _S = 70A; V _{GS} = 0		1.5	V

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