

isc N-Channel MOSFET Transistor

70N06

DESCRIPTION

- Drain Current I_D=70A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=60V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 14m Ω (Max)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

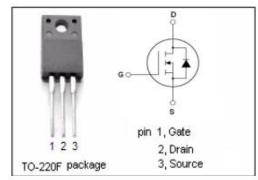
• Designed for use in applications such as swithing Regulators, switching convertes, motor drivers and Relay drivers.

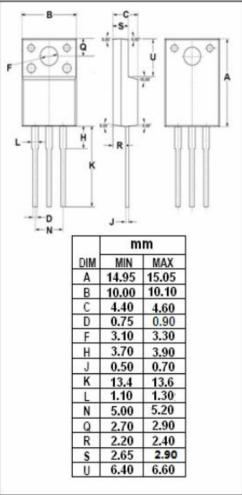
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	60	V
V_{GS}	Gate-Source Voltage ±20		
I _D	Drain Current-continuous@ TC=25℃	5℃ 70	
Pb	Power Dissipation @TC=25°C	40	
Tj	Max. Operating Junction Temperature	Operating Junction Temperature -55~150	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	3.125	°C/W







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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	60		V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2	4	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 70A		0.014	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		1	uA
V _{SD}	Diode Forward Voltage	I _F = 70A; V _{GS} = 0		1.5	V



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