

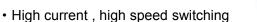
isc N-Channel MOSFET Transistor

FQP50N06L

DESCRIPTION

- Drain Current I_D=50A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=60V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 22m Ω (Max)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS



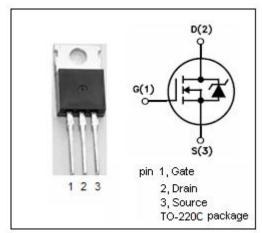
- · Switch mode power supplies
- DC-DC converters for telecom, industrial, and lighting equipment ideal for monitor's B+ function

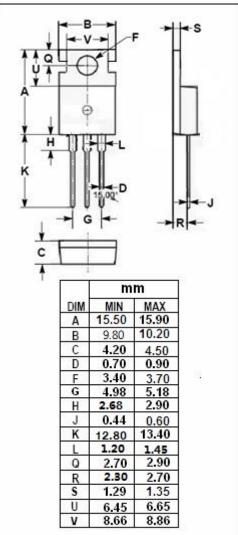
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	60	V	
V _{GS}	Gate-Source Voltage	±25	V	
I _D	Drain Current-continuous@ TC=25℃	50		
	Drain Current-continuous@ TC=100℃	35.4	Α	
PD	Power Dissipation @TC=25°C	120	W	
T _j	Max. Operating Junction Temperature	-55~175	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~175	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/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 = 0.25mA	60		V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	1	2.5	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 25A		0.022	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±25V;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 = 50A; V _{GS} = 0		1.5	V

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