

isc N-Channel Mosfet Transistor

IRF840

FEATURES

- Drain Current –I_D=8.0A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}= 500V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.85 \Omega (Max)$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



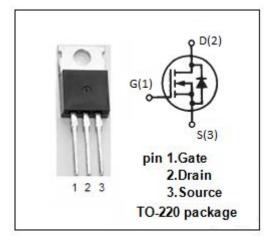
Designed for high voltage, high speed switching power applications such as switching regulators, converters, solenoid and relay drivers.

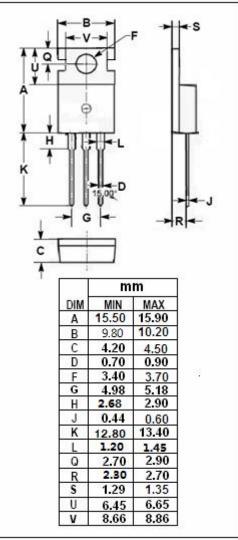
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	8	Α
I _{DM}	Drain Current-Single Plused	32	Α
P_D	Total Dissipation @T _C =25℃	125	W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.0	°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	500		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4.8A		0.85	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} =0		25	uA
V _{SD}	Forward On-Voltage	I _S = 8A; V _{GS} =0		2.0	V



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