

isc N-Channel MOSFET Transistor

FMP60N280S2HF

• FEATURES

- · With TO-220 packaging
- · High speed switching
- · Very high commutation ruggedness
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz

APPLICATIONS

- PFC stages
- LCD & PDP TV
- Power supply
- · Switching applications

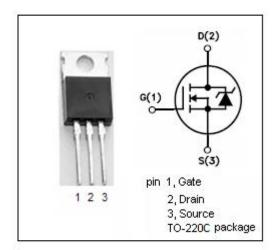


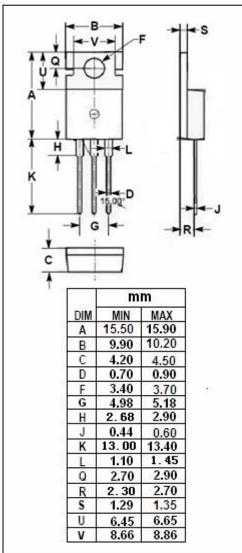
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous@Tc=25℃ Tc=100℃	10.4 6.6	А
I_{DM}	Drain Current-Single Pulsed	31.2	А
P _D	Total Dissipation	75	W
Tj	Operating Junction Temperature	-55~150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT		
Rth(ch-c)	Channel-to-case thermal resistance	1.67	°C/W		
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°C/W		







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	600			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =5.2A		248	280	mΩ
Igss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V;Tj=25°C V _{DS} = 480V; V _{GS} = 0V;Tj=125°C			25 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =10.4A, V _{GS} = 0 V			1.35	V

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