

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

FMR23N60E

FEATURES

- With TO-3PML packaging
- · Maintains both low power loss andlow noise
- · Very high commutation ruggedness
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz

APPLICATIONS

- Switching applications
- DC-DC converters
- Uninterruptible power supply

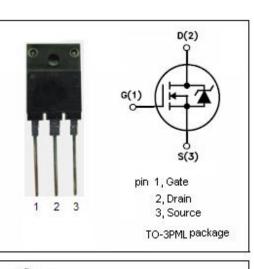
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

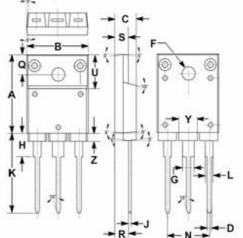
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GSS}	Gate-Source Voltage	±30	V	
ID	Drain Current-Continuous	23	А	
I _{DM}	Drain Current-Single Pulsed	92	A	
PD	Total Dissipation	200	W	
Tj	Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

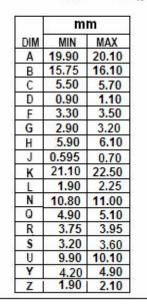
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.63	°C /W	
Rth(ch-a)	Channel-to-ambient thermal resistance	40	°C/W	

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isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

$T_{C}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	600			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =±30V; I _D =0.25mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =11.5A		240	280	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V;Tc=25℃ V _{DS} = 480V; V _{GS} = 0V;Tc=125℃			25 250	μA
V _{SDF}	Diode forward voltage	I _{SD} =23A, V _{GS} = 0 V			1.35	V

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