

isc N-Channel MOSFET Transistor

FS25SM-10A

FEATURES

- Drain Current: I_D= 25A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 500V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.2 \Omega (Max)$
- · 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

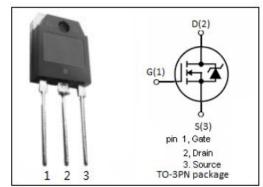
• Designed for use in switch mode power supplies and general purpose applications.

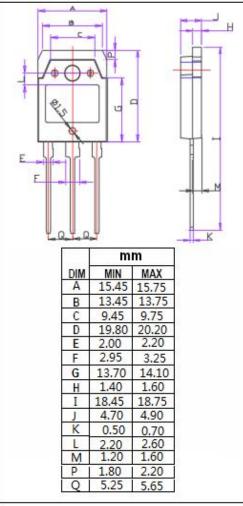


SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V_{GS}	Gate-Source Voltage-Continuous	±30	V
Ι _D	Drain Current-Continuous	25	Α
I _{DM}	Drain Current-Single Pluse	75	Α
P_D	Total Dissipation @T _C =25°C		W
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.63	°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 = 1mA	500		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D = 1mA	2.5	3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 12A		0.2	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±10	μА
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0		1	mA
V _{SD}	Forward On-Voltage	I _S = 12A; V _{GS} = 0		2	V



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