

isc N-Channel MOSFET Transistor

2SK3587-01MR

FEATURES

- Drain Current : I_D= 73A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ = 25m Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

 motor drive, DC-DC converter, power switch and solenoid drive.

ADSOLUTE WAANVUW RATINGS(Ta=25 C)						
SYMBOL	PARAMETER VALUE		UNIT			
V _{DSS}	Drain-Source Voltage	100	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
ID	Drain Current-Continuous 73		A			
I _{DM}	Drain Current-Single Pluse	150	A			
PD	Total Dissipation @Tc=25℃	95	W			
TJ	Max. Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

PARAMETER

Thermal Resistance, Junction to Case

MAX

1.32

UNIT

°C/W

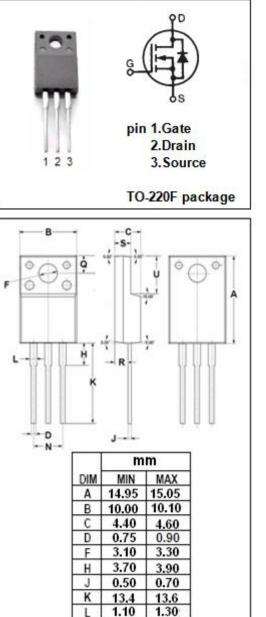
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

isc website: www.iscsemi.com

THERMAL CHARACTERISTICS

SYMBOL

Rth j-c



5.00

2.70

2.20

2.65

6.40

Ν

Q

R

s

U

5.20

2.90

2.40

2.90

6.60



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	100		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	3	5	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 25A		25	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 50A; V _{GS} = 0		1.65	V

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