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2

isc N-Channel MOSFET Transistor

2SK1748

D(2)

S(3)

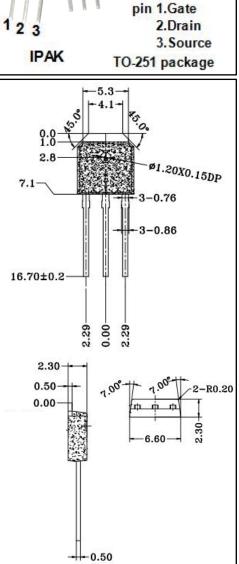
FEATURES

- Drain Current –I_D= 8A@ T_C=25℃
- · Drain Source Voltage-: V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 0.11 \Omega$ (Max)
- 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.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)				
SYMBOL	PARAMETER	VALUE	UNIT	2 7.1
V _{DSS}	Drain-Source Voltage	60	V	
V _{GS}	Gate-Source Voltage-Continuous	±20	V	
ID	Drain Current-Continuous	±8	A	16.70±
I _{DM}	Drain Current-Single Pluse	±24	A	
P _D	Total Dissipation @Tc=25℃	20	w	2.
TJ	Max. Operating Junction Temperature	150	°C	0.8 0.0
T _{stg}	Storage Temperature	-55~150	°C	



SYMBOL PARAMETER

Rth j-c

isc	website:	www.iscsemi.com

Thermal Resistance, Junction to Case

1 isc & iscsemi is registered trademark

MAX

6.25

UNIT

°C/W



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; -	60		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	1	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4A		0.11	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		10	uA

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