

isc N-Channel MOSFET Transistor

R6530KNZ

FEATURES

- Drain Current –I_D= 30A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=650V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 140m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

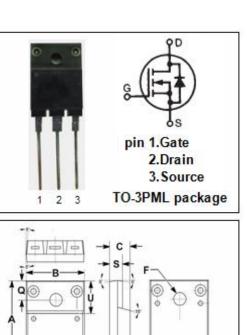
• Designed for use in switch mode power supplies and general purpose applications.

SYMBOL	DL PARAMETER VALUE		UNIT
V _{DSS}	Drain-Source Voltage	650	v
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	30	A
I _{DM}	Drain Current-Single Pluse 90		А
P _D	Total Dissipation @T _c =25℃	86	w
TJ	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature -55~150		°C

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.5	°C/W



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A	19.90	20.10	
В	15.75	16.10	
С	5.50	5.70	
D	0.90	1.10	
F	3.30	3.50	
G	2.90	3.20	
Н	5.90	6.10	
J	0.595	0.70	
K	21.10	22.50	
L	1.90	2.25	
N	10.80	11.00	
Q	4.90	5.10	
R	3.75	3.95	
S	3.20	3.60	
U	9.90	10.10	
Y	4.20	4.90	
Ζ	1.90	2.10	

isc website: <u>www.iscsemi.com</u>



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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; I _D = 1mA	650		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	3	5	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 14.5A		140	$\mathbf{m}\Omega$
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0 V _{DS} = 650V; V _{GS} = 0@T _J =125°C		100 1000	μA
V _{SD}	Forward On-Voltage	I _S = 30A; V _{GS} = 0		1.5	V

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