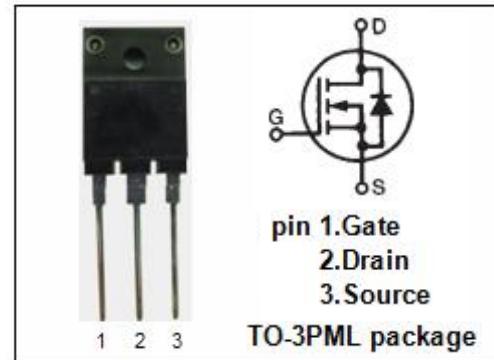


isc N-Channel MOSFET Transistor

R6535KNZ

FEATURES

- Drain Current – $I_D = 35A$ @ $T_C = 25^\circ C$
- Drain Source Voltage-
: $V_{DSS} = 650V$ (Min)
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 115m\Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

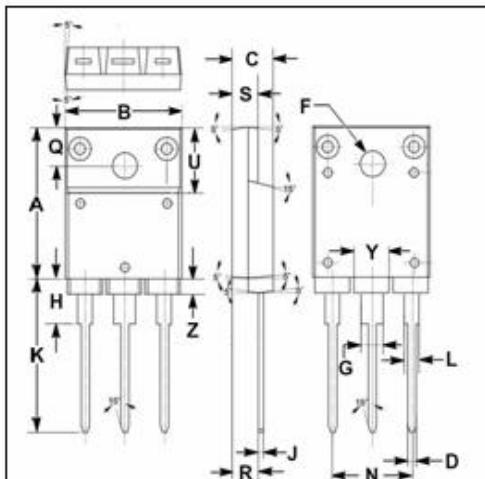


DESCRIPTION

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

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	35	A
I_{DM}	Drain Current-Single Pulse	105	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	102	W
T_J	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$



DIM	mm	
	MIN	MAX
A	19.90	20.10
B	15.75	16.10
C	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
H	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
Z	1.90	2.10

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Thermal Resistance, Junction to Case	1.25	$^\circ C/W$

isc N-Channel MOSFET Transistor**R6535KNZ****ELECTRICAL CHARACTERISTICS** $T_c=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(\text{BR})\text{DSS}}$	Drain-Source Breakdown Voltage	$V_{\text{GS}}=0$; $I_D=1\text{mA}$	650		V
$V_{\text{GS}(\text{th})}$	Gate Threshold Voltage	$V_{\text{DS}}=V_{\text{GS}}$; $I_D=1.21\text{mA}$	3	5	V
$R_{\text{DS}(\text{on})}$	Drain-Source On-Resistance	$V_{\text{GS}}=10\text{V}$; $I_D=18.1\text{A}$		115	$\text{m}\Omega$
I_{GSS}	Gate-Body Leakage Current	$V_{\text{GS}}= \pm 20\text{V}$; $V_{\text{DS}}=0$		± 100	nA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{\text{DS}}=650\text{V}$; $V_{\text{GS}}=0$ $V_{\text{DS}}=650\text{V}$; $V_{\text{GS}}=0$ @ $T_J=125^\circ\text{C}$		100 1000	μA
V_{SD}	Forward On-Voltage	$I_S=35\text{A}$; $V_{\text{GS}}=0$		1.5	V

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