

isc N-Channel MOSFET Transistor

R6520KNZ1

FEATURES

- Drain Current –I_D= 20A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=650V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 205m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

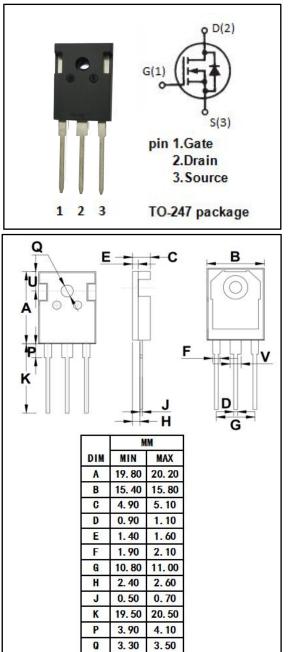
• Designed for use in switch mode power supplies and general purpose applications.

SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage 650		V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous	20	А			
I _{DM}	Drain Current-Single Pluse	60	A			
PD	Total Dissipation @T _c =25°C 231		W			
TJ	Max. Operating Junction Temperature -55~150		°C			
T _{stg}	orage 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	0.54	°C/W



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2.90

5.40

3.10



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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 =630uA	3	5	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D =9.5A		205	mΩ
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 = 20A; V _{GS} = 0		1.5	V

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