

isc N-Channel MOSFET Transistor

R6504ENX

FEATURES

- Drain Current –I_D= 4.0A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=650V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.05 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

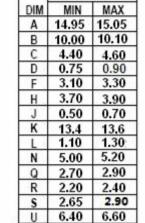
DESCRIPTION

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

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	650	V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous	4.0	A			
I _{DM}	Drain Current-Single Pluse	12	А			
PD	Total Dissipation @T _c =25℃	40	W			
TJ	Max. Operating Junction Temperature -55~150		°C			
T _{stg}	Storage Temperature -55~150		°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

pin 1.Gate 2.Drain 3.Source TO-220F package



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.13	°C/W

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 =130uA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1.5A		1.05	Ω
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 = 4A; V _{GS} = 0		1.5	V

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