

isc N-Channel MOSFET Transistor

R6504ENJ

FEATURES

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

DESCRIPTION

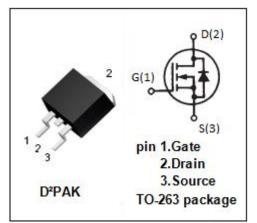
· Designed for use in switch mode power supplies and general purpose applications.

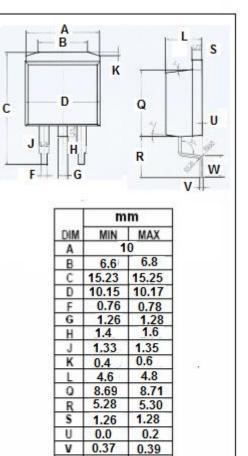
ADSOLUTE MAXIMUM RATINGS(Ta-25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	rain-Source Voltage 650				
V_{GS}	Gate-Source Voltage-Continuous	ource Voltage-Continuous ±20				
ID	Drain Current-Continuous 4.0		А			
I _{DM}	Drain Current-Single Pluse 12		А			
P _D	Total Dissipation @T _c =25°C 58		W			
TJ	Max. Operating Junction Temperature	-55~150	°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	2.2	°C/W





٧ W

2.80

2.82



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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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