

isc N-Channel MOSFET Transistor

IPP65R280E6, IIPP65R280E6

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤0.28Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

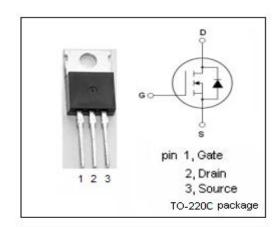
 Provide all benefits of a fast switching SJ MOSFET while not sacrificing ease of use

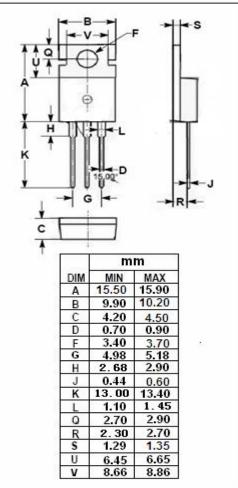


SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	650	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	13.8	А	
I _{DM}	Drain Current-Single Pulsed	39	А	
P _D	Total Dissipation @T _c =25℃	104	W	
Tj	Max. Operating Junction Temperature 150		$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.2	°C/W
Rth(ch-a)	Rth(ch-a) Channel-to-ambient thermal resistance		°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =1mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.44mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=4.4A			0.28	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =6.6A; V _{GS} = 0V		0.9		V

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