

isc N-Channel MOSFET Transistor

IPP65R150CFD, IIPP65R150CFD

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤0.15Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

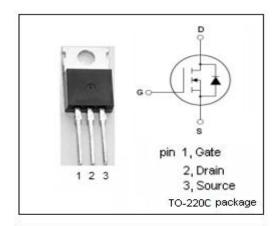
 Provide all benefits of a fast switching SJ MOSFET while offering an extremely fast and robust body diode

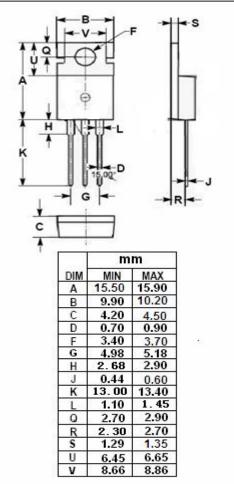
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ADOCEOTE MAXIMOM (TATINGO(Ta 200)							
SYMBOL	PARAMETER	VALUE	E UNIT				
V _{DSS}	Drain-Source Voltage	650	V				
V _{GS}	Gate-Source Voltage	±20	V				
I _D	Drain Current-Continuous	22.4	А				
I _{DM}	Drain Current-Single Pulsed 72		А				
P _D	Total Dissipation @T _C =25℃ 195.3		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	0.64	°C/W
Rth(ch-a)	th(ch-a) Channel-to-ambient thermal resistance		°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	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 =0.9mA	3.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=9.3A			0.15	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 =14A; V _{GS} = 0V		0.9		V

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