

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPW65R190CFD

IIPW65R190CFD

FEATURES

- Static drain-source on-resistance: RDs(on)≤190mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

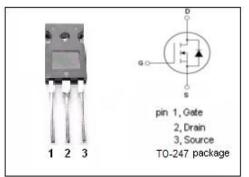
Fast Switching

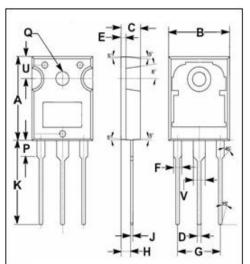
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

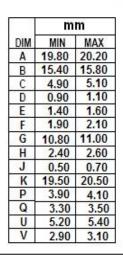
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	650	V			
V _{GS}	Gate-Source Voltage	±20	V			
ID	Drain Current-Continuous	17.5	А			
I _{DM}	Drain Current-Single Pulsed	57.2	А			
PD	Total Dissipation @Tc=25°C	151 W				
Tj	Max. Operating Junction Temperature	150 °C				
T _{stg}	Storage Temperature	-55~150	°C			

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	0.83	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	62	°C/W







isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	650			v
$V_{GS(th)}$	Gate Threshold Voltage	VDS=VGS; ID=0.7mA	3.5		4.5	v
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} =10V; I _D =7.3 A			190	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V; VDS=0V			0.1	mA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			1	μ Α
V _{SD}	Diode forward voltage	I _F =11A, V _{GS} = 0V				V

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