

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPW65R280C6

IIPW65R280C6

FEATURES

- Static drain-source on-resistance: RDs(on)≤280mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

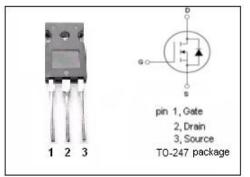
Fast Switching

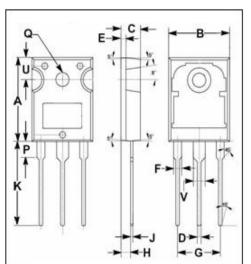
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

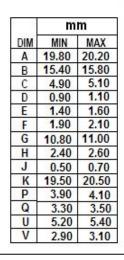
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	650	V			
V _{GS}	Gate-Source Voltage ±20		V			
ID	Drain Current-Continuous	ain Current-Continuous 13.8				
I _{DM}	Drain Current-Single Pulsed	39	A			
Po	Total Dissipation @Tc=25°C	104	W			
Tj	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.2	°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=0.44mA	2.5		3.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} =10V; I _D =4.4A			280	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	μA
Vsd	Diode forward voltage	I _F =6.6A, V _{GS} = 0V				V

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