

isc N-Channel MOSFET Transistor

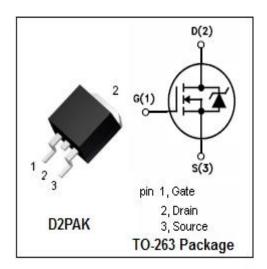
IPB65R190C7

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤0.19Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

- Ultra low gate charge
- · High peak current capability
- · Improved transconductance

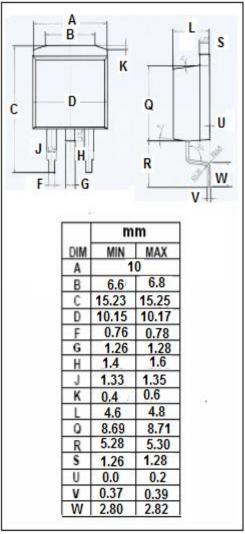


 ABSOLUTE 	MAXIMUM	RATINGS(Гa=25°С)
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SYMBOL	PARAMETER	VALUE	UNIT	
V_{DSS}	Drain-Source Voltage	650	V	
V_{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	13	А	
I _{DM}	Drain Current-Single Pulsed	49	Α	
P _D	Total Dissipation @Tc=25℃	72	W	
Tj	Max. Operating Junction Temperature	-55~150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.73	°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	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 =0.29mA	3		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=5.7A			0.19	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 =5.7A; V _{GS} = 0V		0.9		V

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