

isc N-Channel MOSFET Transistor

IPB65R225C7

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤0.225Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

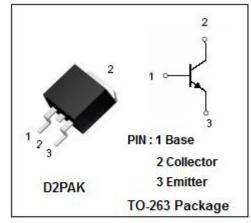
 Provide all benefits of a fast switching super junction MOSFET offering better efficiency,reduced gate charge,easy implementation and outstanding reliability

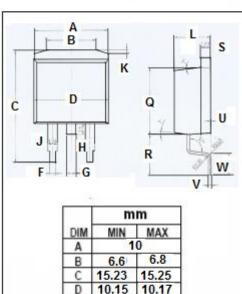
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	11	Α
I _{DM}	Drain Current-Single Pulsed	41	А
P _D	Total Dissipation @T _C =25°C	63	W
Tj	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.99	°C/W	





	N 220000		
DIM	MIN	MAX	
Α	10		
В	6.6	6.8	
C	15.23	15.25	
D	10.15	10.17	
F	0.76	0.78	
G	1.26	1.28	
Н	1.4	1.6	
J	1.33	1.35	
K	0.4	0.6	
L	4.6	4.8	
Q	8.69	8.71	
R	5.28	5.30	
S	1.26	1.28	
U	0.0	0.2	
V	0.37	0.39	
W	2.80	2.82	



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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 =0.24mA	3		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=4.8A			0.225	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 =4.8A; V _{GS} = 0V		0.9		V

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