

isc N-Channel MOSFET Transistor

IPW60R180C7

• FEATURES

- Static drain-source on-resistance: R_{DS}(on)≤180mΩ
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



· Fast Switching

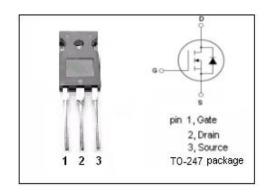


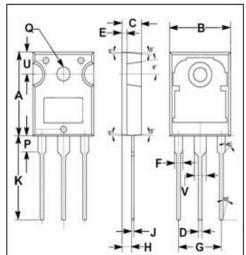
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{ extsf{DSS}}$	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	13	А
I _{DM}	Drain Current-Single Pulsed	45	А
P _D	Total Dissipation @Tc=25°C	68	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	1.832	°C/W	
Rth(j-a)	Rth(j-a) Channel-to-ambient thermal resistance		°C/W	





	mm		
DIM	MIN	MAX	
Α	19.80	20.20	
В	15.40	15.80	
C	4.90	5.10	
D	0.90	1.10	
E	1.40	1.60	
F	1.90	2.10	
G	10.80	11.00	
Н	2.40	2.60	
J	0.50	0.70	
K	19.50	20.50	
P	3.90	4.10	
Q	3.30	3.50	
U	5.20	5.40	
V	2.90	3.10	



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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; I _D =1mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.26mA	3		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =5.3A			180	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V; V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =5.3A, V _{GS} = 0V				V

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