

isc N-Channel MOSFET Transistor

IPW60R160C6

• FEATURES

- Static drain-source on-resistance: R_{DS}(on)≤160mΩ
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





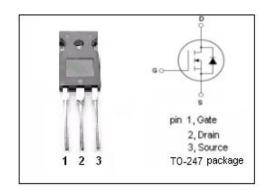


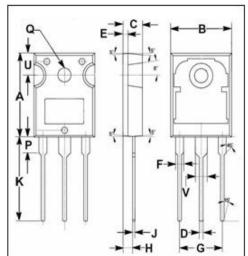
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	23.8	А	
I _{DM}	Drain Current-Single Pulsed	70	А	
P _D	Total Dissipation @Tc=25°C	176	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	0.71	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	62	°C/W





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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		
٧	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 =0.25mA	600			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.75mA	2.5		3.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} =10V; I _D =11.3A			160	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V			0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =11.3A, V _{GS} = 0V				V

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