

isc N-Channel MOSFET Transistor

IPD60R460CE,IIPD60R460CE

FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \leq 0.46\Omega$
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

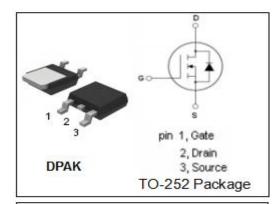
· Fast switching

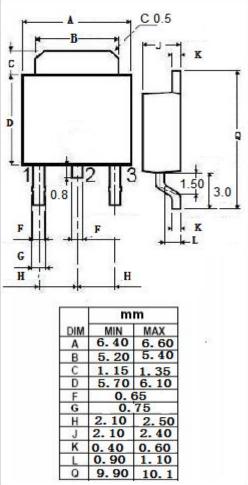
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous	13.1	А	
I _{DM}	Drain Current-Single Pulsed	26	А	
P _D	Total Dissipation @T _C =25°C	102	W	
Tj	Max. Operating Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature	-40~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.22	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	62	°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; I _D =0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.28mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =3.4A			0.46	Ω
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 =4.2A, V _{GS} = 0V		0.9		V

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