

# isc N-Channel MOSFET Transistor IPD60R2K0C6,IIPD60R2K0C6

## FEATURES

- Static drain-source on-resistance:
  R<sub>DS</sub>(on)≤2Ω
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## DESCRITION

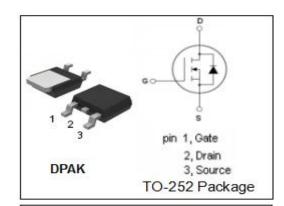
· Fast switching

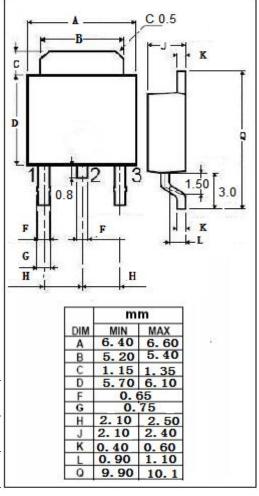
# • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{\text{DSS}}$	Drain-Source Voltage	600	V
$V_{GS}$	Gate-Source Voltage	±20	V
I <sub>D</sub>	Drain Current-Continuous	2.4	Α
I <sub>DM</sub>	Drain Current-Single Pulsed	6	Α
P <sub>D</sub>	Total Dissipation @T <sub>C</sub> =25°C 22.3		W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$ C
T <sub>stg</sub>	Storage Temperature	-55~150	$^{\circ}$ C

## • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	5.6	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	62	°C/W







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## **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> =0.25mA	600			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	VDS=VGS; I <sub>D</sub> =0.06mA	2.5		3.5	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> =10V; I <sub>D</sub> =0.76A			2	Ω
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> =20V; V <sub>DS</sub> =0V			0.1	μ <b>А</b>
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> =600V; V <sub>GS</sub> = 0V			1	μА
$V_{SD}$	Diode forward voltage	I <sub>F</sub> =0.9A, V <sub>GS</sub> = 0V		0.9		V

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