

isc N-Channel MOSFET Transistor IPD50R3K0CE,IIPD50R3K0CE

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤3Ω
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

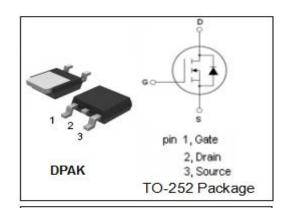
· Fast switching

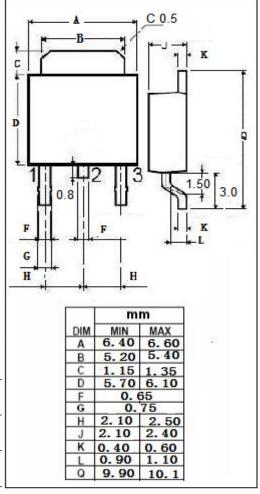
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	500	V
V_{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	2.6	Α
I _{DM}	Drain Current-Single Pulsed	4.1	Α
P _D	Total Dissipation @T _C =25°C 26		W
Tj	Max. Operating Junction Temperature 150		$^{\circ}\!\mathrm{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	4.85	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	62	°C/W







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IPD50R3K0CE,IIPD50R3K0CE

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	500			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =30 μ A	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =13V; I _D =0.4A			3	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V			0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} =500V; V _{GS} = 0V			1	μ А
V _{SD}	Diode forward voltage	I _F =0.5A, V _{GS} = 0V		0.83		V

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