

isc N-Channel MOSFET Transistor

IPD65R660CFD,IIPD65R660CFD

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤0.66Ω
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRITION

· High commutation ruggedness



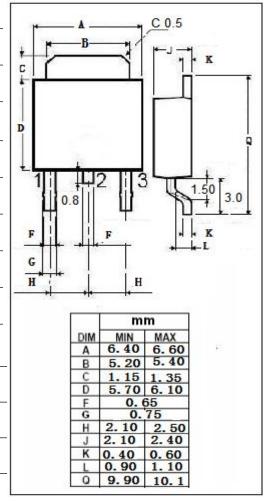
pin 1, Gate 2, Drain 3, Source TO-252 Package

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	6	Α
I_{DM}	Drain Current-Single Pulsed	17	Α
P_D	Total Dissipation @Tc=25℃	63	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	2	°C/W
Rth(j-a)	Rth(j-a) Channel-to-ambient thermal resistance		°C/W





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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 =0.25mA	650			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =210 μ A	3.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2.1A			0.66	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			5	μА
V _{SD}	Diode forward voltage	I _F =3.2A, V _{GS} = 0V	0.9			V

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