

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPI65R190E6

FEATURES

- Static drain-source on-resistance: RDs(on) ≤0.19Ω
- Enhancement mode
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

• Provide all benefits of a fast switching SJ MOSFET while not sacrificing ease of use

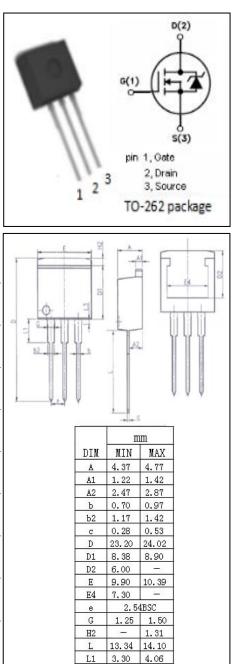
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	650	V				
V_{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	20.2	A				
I _{DM}	Drain Current-Single Pulsed	66	A				
P _D	Total Dissipation @T _c =25°C	151	W				
Tj	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature	-55~150	°C				
THERMAL CHARACTERISTICS							
SYMBOL	PARAMETER	МАХ	UNIT				

0.83

1

°C/W



0.95

1.15

L3

Rth(ch-c)

Channel-to-case thermal resistance



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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; ID =1mA	650			v
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.73mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=7.3A			0.19	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =11A; V _{GS} = 0V		0.9		V

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