

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor IPD135N03L, IIPD135N03L

FEATURES

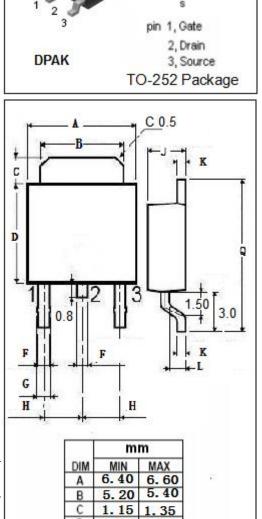
- Static drain-source on-resistance: $R_{DS}(on) \leq 13.5 m_{\Omega}$
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· Fast switching

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	30	V			
V _{GS}	Gate-Source Voltage	±20	V			
ID	Drain Current-Continuous	30	30 A			
I _{DM}	Drain Current-Single Pulsed	210	A			
PD	Total Dissipation @T _c =25°C	31	W			
Tj	Max. Operating Junction Temperature	175	°C			
T _{stg}	Storage Temperature	-55~175	°C			



5.70 6.10

2.50

2.40

0.60

1.10

10

0.65

2.10

2.10

0.40

0.90

9.90

D

G

0

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	4.9	°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	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	30			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =250 µ A	1		2.2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =30A			13.5	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V; V _{DS} = 0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =30V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =30A, V _{GS} = 0V			1.2	V

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