

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor IPD50R380CE,IIPD50R380CE

FEATURES

- Static drain-source on-resistance: Ros(on)≤380mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

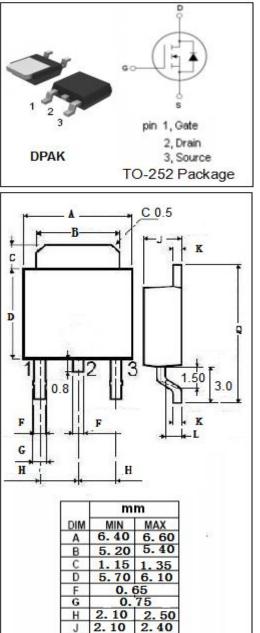
· Fast switching

• ABSOLUTE MAYIMUM DATINGS/T

VALUE	UNIT	1 1
		C
500	V	
±20	V	D
14.1	А	- 1]
32.4	А	ļ
98	W	F G
150	°C	H
-55~150	°C	
	±20 14.1 32.4 98 150	±20 V 14.1 A 32.4 A 98 W 150 °C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.27	°C /W
Rth(j-a)	(j-a) Channel-to-ambient thermal resistance		°C /W



κ

0

0.40

0.90

9.90

0.60

10

10



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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	500			V
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; I _D =260 µ A	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =13V; I _D =3.2A			380	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =500V; V _{GS} = 0V			1	μ Α
V _{SD}	Diode forward voltage	I _F =3.9A, V _{GS} = 0V		0.85		V

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