

isc N-Channel MOSFET Transistor

IPD80R1K0CE,IIPD80R1K0CE

FEATURES

- Static drain-source on-resistance:
 - R⊳s(on)≤0.95Ω
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

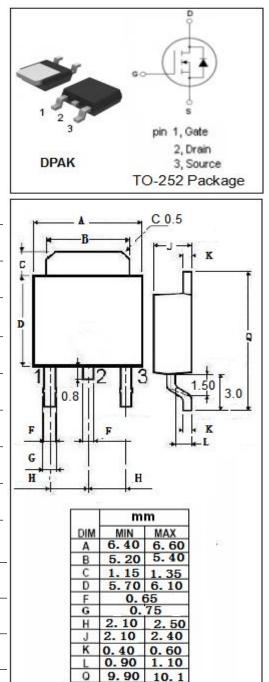
High peak current capability

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABSOLUTE MAXIMUM NATINGS(Ta=23 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	800	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous		А				
I _{DM}	Drain Current-Single Pulsed	18	А				
PD	Total Dissipation @Tc=25℃	c=25°C 83					
Tj	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature	-55~150	°C				

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.5	°C /W
Rth(j-a)	Channel-to-ambient thermal resistance	62	°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 =0.25mA	800			V
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; I _D =0.25mA	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =3.6A			0.95	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =800V; V _{GS} = 0V			10	μA
V _{SD}	Diode forward voltage	I _F =5.7A, V _{GS} = 0V			1.2	V

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