

isc P-Channel MOSFET Transistor

IPD068P03L3,IIPD068P03L3

• FEATURES

- Static drain-source on-resistance: R_{DS}(on)≤6.8mΩ
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

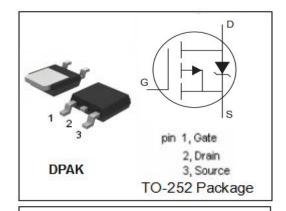
• 175° C operating junction temperature

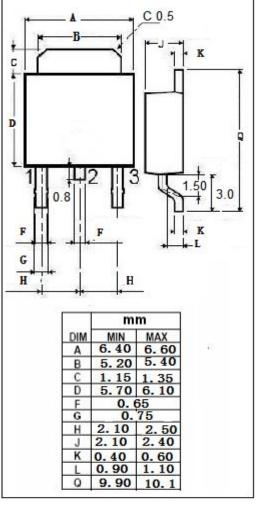
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	-30	V	
V _{GS}	Gate-Source Voltage	±20	V	
l _D	Drain Current-Continuous	-70	А	
I _{DM}	Drain Current-Single Pulsed	-280	А	
P_D	Total Dissipation @T _C =25℃	100	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$	
T _{stg}	Storage Temperature	-55~175	°C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.5	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	50	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = -0.25mA	-30			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = -0.15mA	-1.0		-2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D = -70A			6.8	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = -20V;V _{DS} = 0V			-0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -30V; V _{GS} = 0V			-1	μА
V _{SD}	Diode forward voltage	I _F = -70A, V _{GS} = 0V			-1.2	V

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