

isc N-Channel MOSFET Transistor

IPD65R600E6,IIPD65R600E6

• FEATURES

- Static drain-source on-resistance: R_{DS}(on)≤0.6Ω
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

- · Fast switching
- · Very high commutation ruggedness

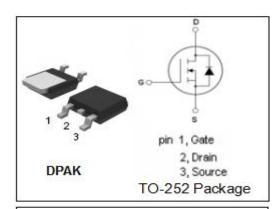


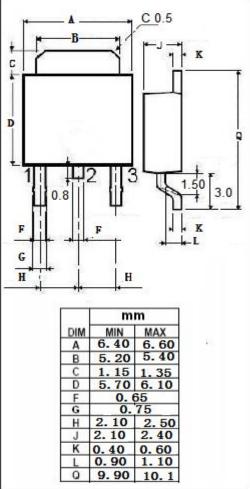
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	650	V	
V _{GS}	Gate-Source Voltage	±20	V	
l _D	Drain Current-Continuous	7.3	Α	
I _{DM}	Drain Current-Single Pulsed	18	Α	
P_D	Total Dissipation @T _C =25℃	63	W	
Tj	Max. Operating Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(j-c)	Channel-to-case thermal resistance		°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	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.21mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2.1A			0.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =3.2A, V _{GS} = 0V		0.9		V

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