

isc P-Channel MOSFET Transistor

SPD15P10PL

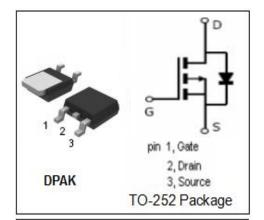
·FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤270mΩ(@V_{GS}= -4.5V; I_D= -9.7A)
- Advanced trench process technology
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Fast switching application.



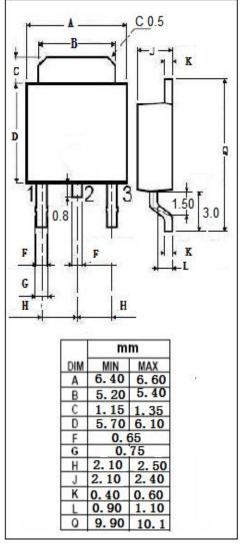


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	-100	V
V_{GS}	Gate-Source Voltage	±20	V
ΙD	Drain Current-Continuous	-15	А
P _D	Total Dissipation @Tc=25°C	128	W
Tj	Max. Operating Junction Temperature	-55~175	${\mathbb C}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.17	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = -250uA	-100		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = -1.54mA	-1	-2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -4.5V; I _D = -9.7A		270	$m\Omega$
Igss	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -100V; V _{GS} = 0V		-1	μА
V_{SD}	Diode forward voltage	I _S = -15A, V _{GS} = 0V		-1.35	V



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