

isc N-Channel MOSFET Transistor

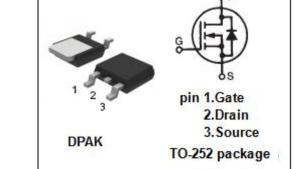
STD7ANM60N

• FEATURES

- With TO-252(DPAK) packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



- Power supply
- Switching applications

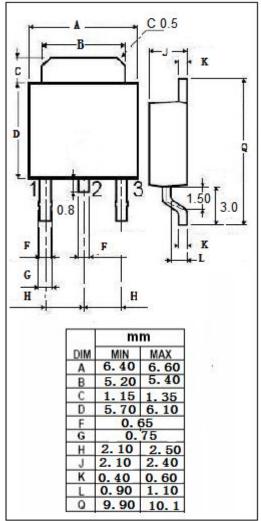


• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	
V _{GSS}	Gate-Source Voltage	±25	V
I _D	Drain Current-Continuous;@Tc=25℃ 5		Α
I _{DM}	Drain Current-Single Pulsed	20	Α
P _D	Total Dissipation	45	W
T _j	Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.78	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A			900	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = $\pm 20V; V_{DS}$ = $0V$			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V			1	μА
V _{SDF}	Diode forward voltage	I _{SD} = 5A, V _{GS} = 0 V			1.3	V



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