

isc N-Channel Mosfet Transistor

STD13NM60ND

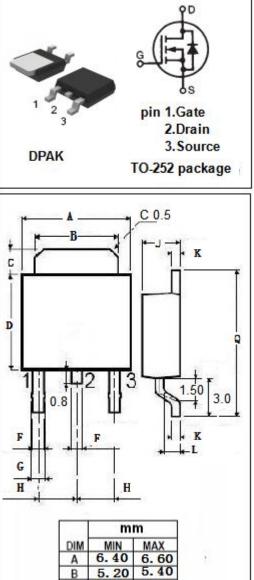
- FEATURES
- Drain Current I_D= 11A@ T_C=25℃
- · Drain Source Voltage-
 - : V_{DSS}=600V(Min)
- · Fast Switching Speed
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

Switching applications

• ABSOLUTE MAXIMUM RATINGS(T=25°C)

• ABSOLU	JTE MAXIMUM RATINGS(Ta=25°C)			1
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V_{GS}	Gate-Source Voltage	±25	V	D
ID	Drain Current-continuous@ T _C =25℃	11	А	
I _{DM}	Pulse Drain Current	44	А	F
P _{tot}	Total Dissipation@T _C =25℃	110	w	G H
Tj	Max. Operating Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	
THERM	AL CHARACTERISTICS			
SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.14	°C/W	



1.15

40 0

90 0.

9.90

5.

2 10 2,10 1.35

40

70 6.10 0.65

0



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^\circ\!\!\!\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	600			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250µA	3		5	V
V _{SD}	Diode Forward On-Voltage	I _S =11A ;V _{GS} = 0			1.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =5.5A			380	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} =0			±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0			1	μA
		V _{DS} = 600V; T _C =125℃			100	

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