

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

25N10

 High sp Standa Easy to 100% a Minimu 	D-252(DPAK) packaging beed switching rd level gate drive	PIN 1.Gate 2.Drain 3.Source TO-252 package			
	CATIONS				и Aи С 0.5
	supply ng applications -UTE MAXIMUM RATING	2(T -25°C)			
SYMBOL	PARAMETER	5(1a-25 C)	VALUE	UNIT	D
V _{DSS}	Drain-Source Voltage		100	V	
V _{GSS}	Gate-Source Voltage		±20	V	
ID	Drain Current-Continuous	Tc=25℃ Tc=100℃	23 14.6	А	
I _{DM}	Drain Current-Single Pulsed		80	А	
PD	Total Dissipation		41	W	
Tj	Operating Junction Temperati	ıre	-55~150	°C	mm
	Operating Junction Temperate Storage Temperature	ıre	-55~150 -55~150	°	DIM MIN MAX A 6.40 6.60
Tj Tstg		ıre			DIM MIN MAX A 6.40 6.60 B 5.20 5.40 C 1.15 1.35 D 5.70 6.10
Tj Tstg	Storage Temperature				DIM MIN MAX A 6.40 6.60 B 5.20 5.40 C 1.15 1.35 D 5.70 6.10 F 0.65 G 0.75
Tj Tstg • THERN	Storage Temperature	ER	-55~150	°C	DIM MIN MAX A 6.40 6.60 B 5.20 5.40 C 1.15 1.35 D 5.70 6.10 F 0.65 G 0.75

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	100			v
V _{GS} (th)	Gate Threshold Voltage V _{DS} =10V; I _D =0.25mA		2		4	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =16A			80	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V			±0.1	μ Α
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V;Tj=25℃ Tj=100℃			25 100	μ Α
V _{SDF}	Diode forward voltage	I _{SD} =16A, V _{GS} = 0 V			1.3	V

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