

isc N-Channel MOSFET Transistor

IXTY4N65X2

• FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 850m\Omega@V_{GS}=10V$
- · Fully characterized avalanche voltage and current
- 100% Avalanche Tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

- · Switched mode power supplies
- DC-DC converters

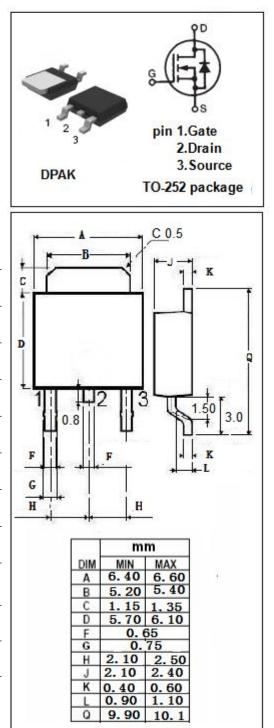
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage	±30	V
ID	Drain Current-Continuous 4		A
I _{DM}	Drain Current-Single Pulsed	8	A
P _D	Total Dissipation @T _C =25°C	80	W
Tj	Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Junction-to-case thermal resistance	1.56	°C/W

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0V; ID = 250 μ A	650		V
$V_{\text{GS}(\text{th})}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; ID = 250 μ A	3.0	5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 2A		850	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = ±30V; V_{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		5	μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		100	
V_{SD}	Diode forward voltage	I _F = 4A; V _{GS} = 0V		1.4	V

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