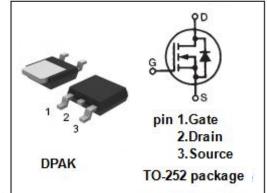


isc N-Channel MOSFET Transistor

DMG8880LK3

FEATURES

- Drain Current –I_D= 16.5A@ T_C=25°C
- Drain Source Voltage-
 - : V_{DSS}= 30V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 7.5 \text{m} \Omega \text{ (Max)}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

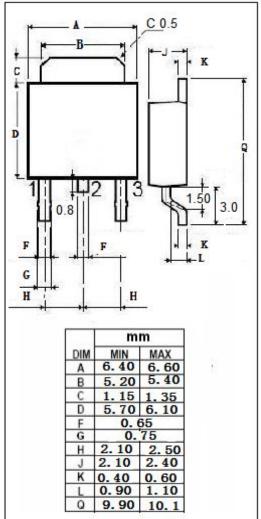
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

CVMPOL	DADAMETER	VALUE	LINUT	
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	30	V	
V _{GS}	Gate-Source Voltage-Continuous	±20	V	
l _D	Drain Current-Continuous	16.5	Α	
I _{DM}	Drain Current-Single Pluse	48	Α	
P _D	Total Dissipation @T _C =25℃ 4.7		W	
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-A}	Thermal Resistance, Junction to Ambient	30.8	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	30		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	1.2	2.3	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 11.6A		7.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0		1.0	μА
V _{SD}	Forward On-Voltage	I _S = 2.1A; V _{GS} = 0		1.0	V

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