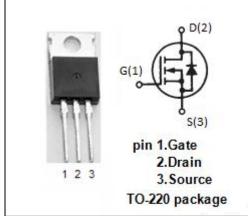


isc N-Channel MOSFET Transistor

DMTH10H005LCT

FEATURES

- Drain Current –I_D= 140A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 100V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 5.0 \text{m} \Omega \text{ (Max)}$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

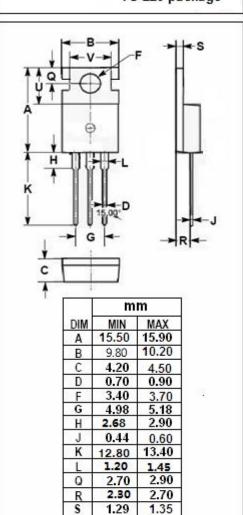
 Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

1 = 2 = 2 = 1 = 1 = 1 = 1 = 1 = 2 = 3 1 = 2 = 3						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	100	V			
V _{GS}	Gate-Source Voltage-Continuous ± 20		V			
I _D	Drain Current-Continuous 140		А			
I _{DM}	Drain Current-Single Pluse 150		А			
P _D	Total Dissipation @T _C =25°C 187		W			
TJ	Max. Operating Junction Temperature -55~175		$^{\circ}$			
T _{stg}	Storage Temperature -55~175		$^{\circ}$			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.8	°C/W



6.45

8.66

6.65



isc N-Channel MOSFET Transistor

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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 = 1mA	100		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	1.4	3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 13A		5.0	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =80V; V _{GS} = 0		1.0	μА
V _{SD}	Forward On-Voltage	I _S = 13A; V _{GS} = 0		1.3	V

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