60V N-CHANNEL ENHANCEMENT MODE MOSFET

MAIN CHARACTERISTICS

I_D	80A
V_{DSS}	60V
R_{DSON}-typ(@V_{GS}=10V)	6.9mΩ(Typ:5.3mq)

FEATURES

- Advanced Trench Technology
- Excellent RDS(ON) and Low Gate Charge

APPLICATIONS

- Load switch
- PWM Application
- Power Management

MECHANICAL DATA

- Case: Molded plastic
- Mounting Position: Any
- Molded Plastic: UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275

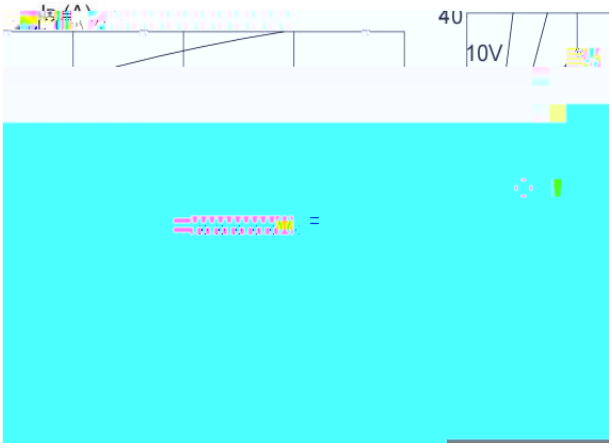
Maximum Ratings at Tc=25ÁC unless otherwise specified

Characteristics	Test Condition	Symbols	Min	Typ	Max	Units
Drain-Source Breakdown Voltage	V_{GS}=0V, I_D=250uA	**BV_{DSS}**	60	-	-	**V**
Zero Gate Voltage Drain Current	V_{DS} =60 V, V_{GS} = 0 V	**I_{DSS}**	-	-	1	**εA**
Gate Body Leakage Current	V_{GS}=±20V, V_{DS}=0V	**I_{GSS}**	-	-	±100	**nA**
Gate Threshold Voltage	V_{DS}= V_{GS}, I_D=250µA	**$V_{GS(th)}$**	2	-	4	**V**
Drain-Source on-Resistance	V_{GS}=10V, I_D=30A	**$R_{DS(ON)}$**	-	5.3	6.9	**mΩ**
Forward Transconductance	V_{DS} = 5 V, I_D = 10 A	**gfs**	10	-	-	**S**
Input Capacitance	V_{DS}=30V V_{GS}=0V f=1MHz	**C_{iss}**	-	3712	-	**pF**
Output Capacitance		**C_{oss}**				

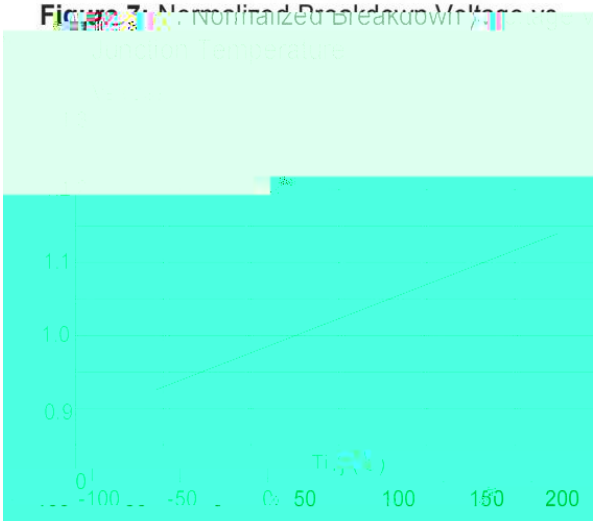
= 10 V
C R eerse Trans te Capacitance C_{rss} = 30 V, V

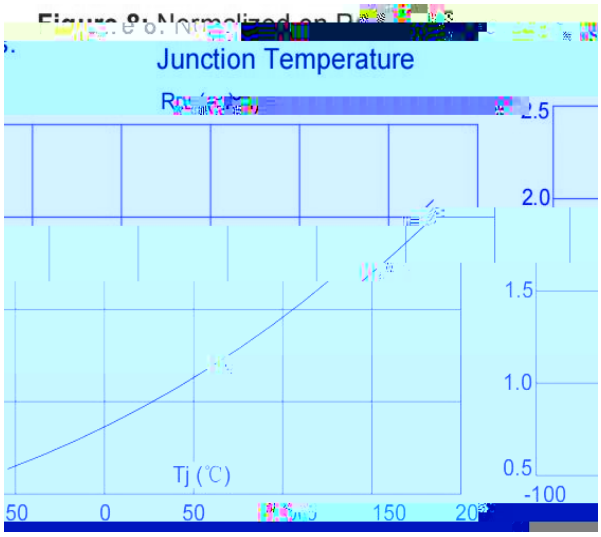
Ratings and Characteristic Curves

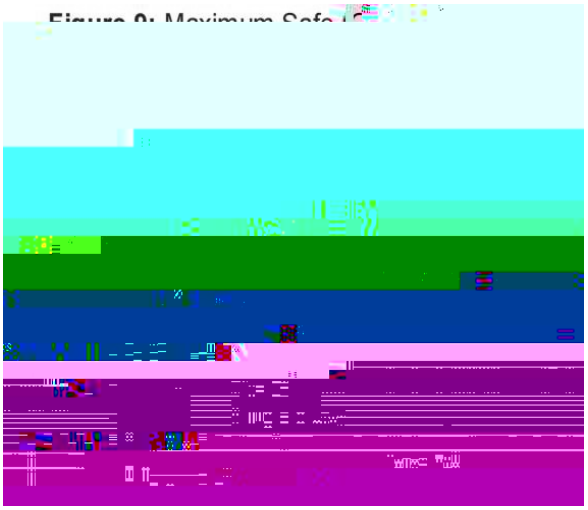
Figure1: Output Characteristics



Ratings and Characteristic Curves a









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