/ Descriptions

TO-251 P

P-CHANNEL MOSFET in a TO-251 Plastic Package.

/ Features

V_{DS} (V) = -60V I_D =-20A (V_{GS} = ± 20V)

$R_{DS(ON)}$@-10V ≤ 75mΩ(Typ.62mΩ)

$R_{DS(ON)}$@-4.5V≤100mΩ(Typ.70mΩ)

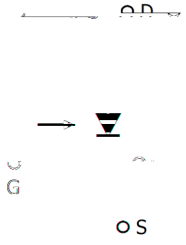
HF Product.

/ Applications

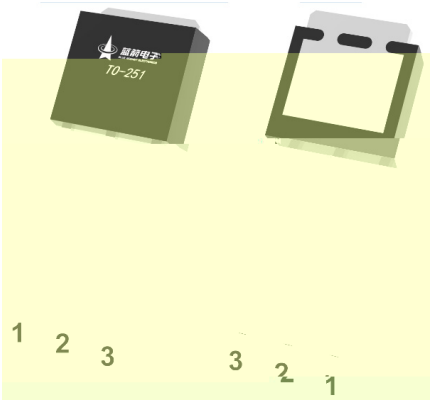
DC/DC

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.

/ Equivalent Circuit



/ Pinning



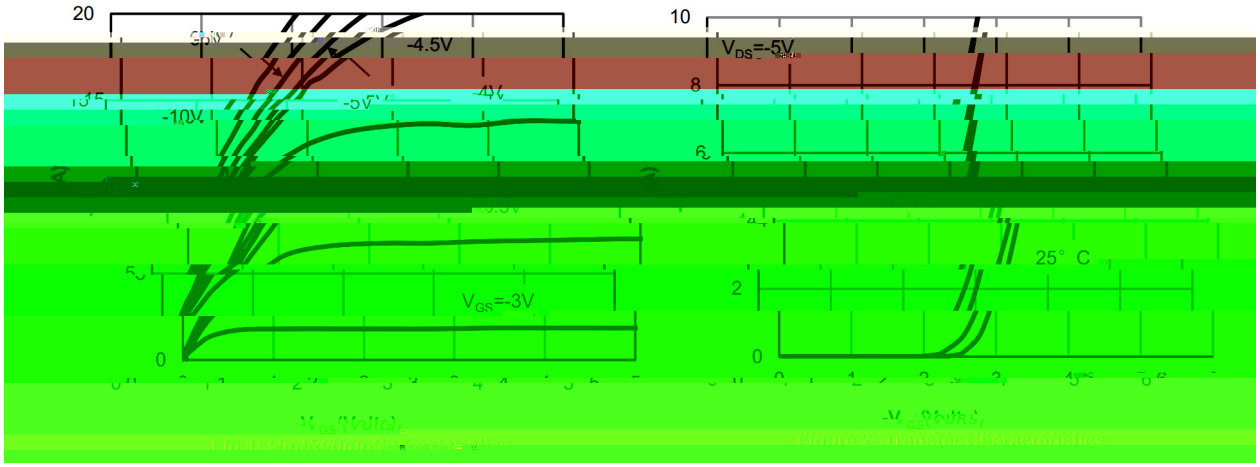
PIN1 G PIN 2 D PIN 3 S

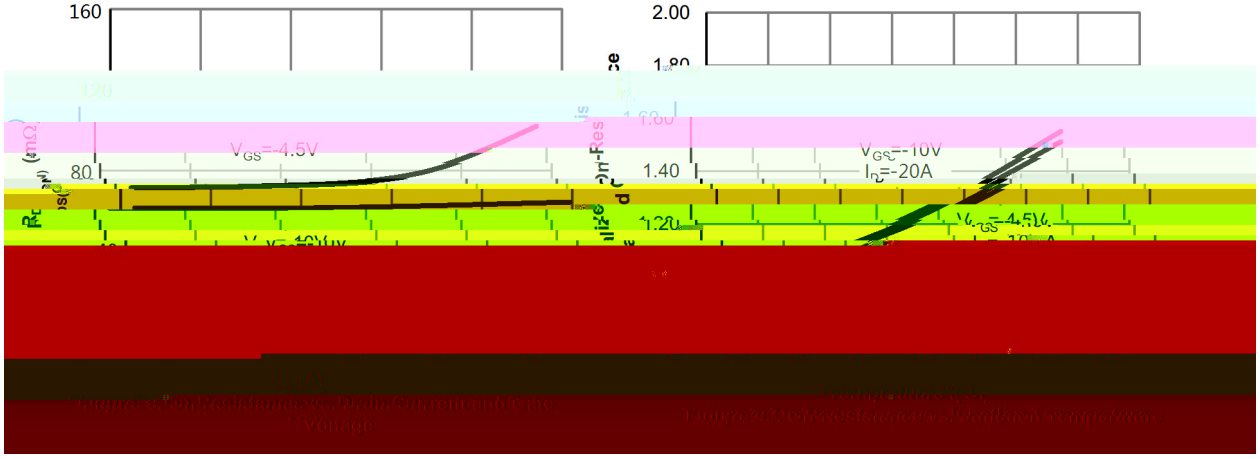
/ Marking

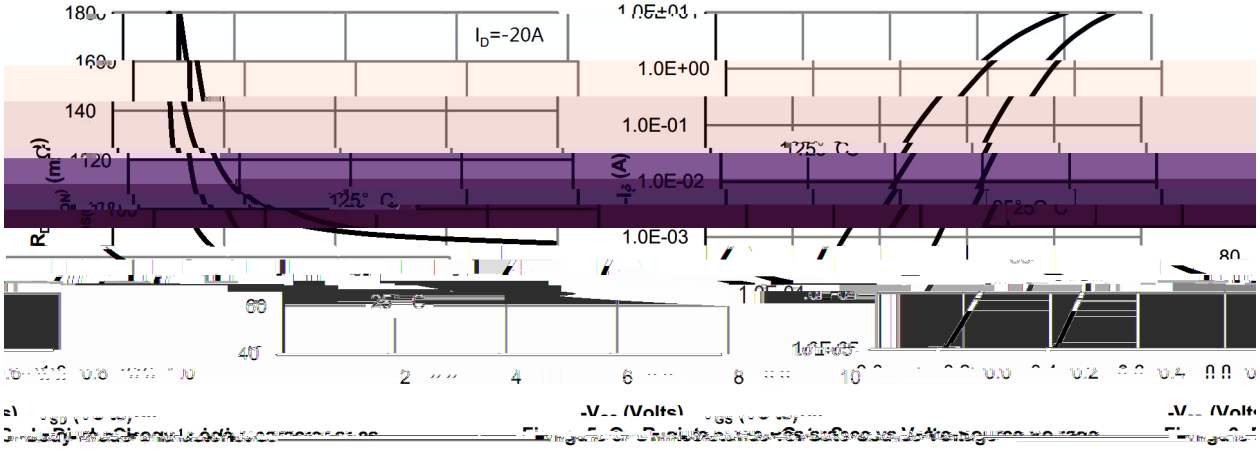
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	-60	V
Gate-Source Voltage	V_{GSS}	±20	V
Continuous Drain Current	I_D (T_c=25°C)	-20	A
Pulsed Drain Current	I_{DM}	-80	A
Avalanche Current	I_{AS}	-13.8	A
Avalanche energy L=0.5mH	E_{AS}	95	mJ
Power Dissipation for Single Operation	P_D (T_c=25)	45	W
Maximum Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	
Thermal Resistance-Junction to Ambient	R_{d}		

/ Electrical Characteristic Curve







/ Electrical Characteristic Curve

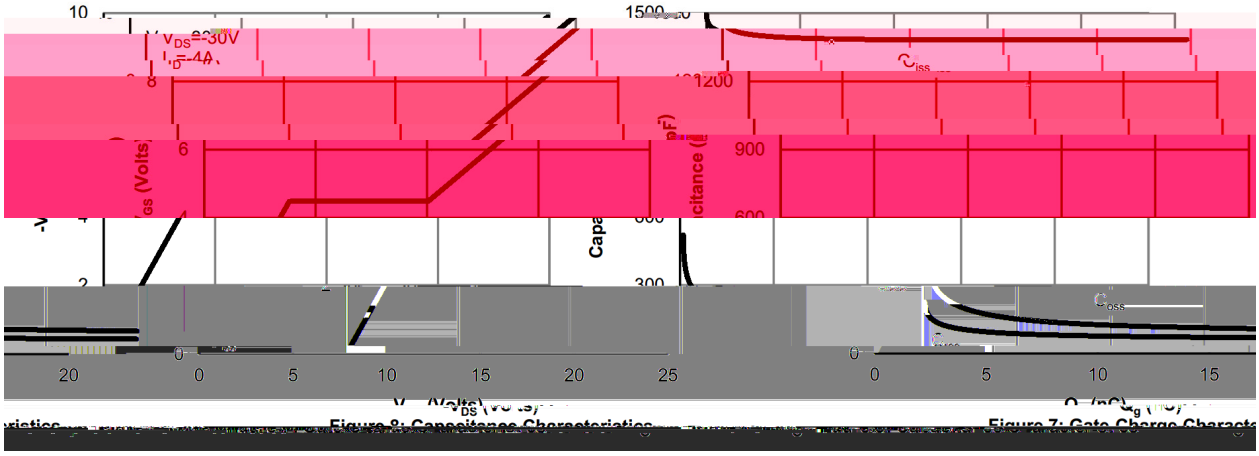
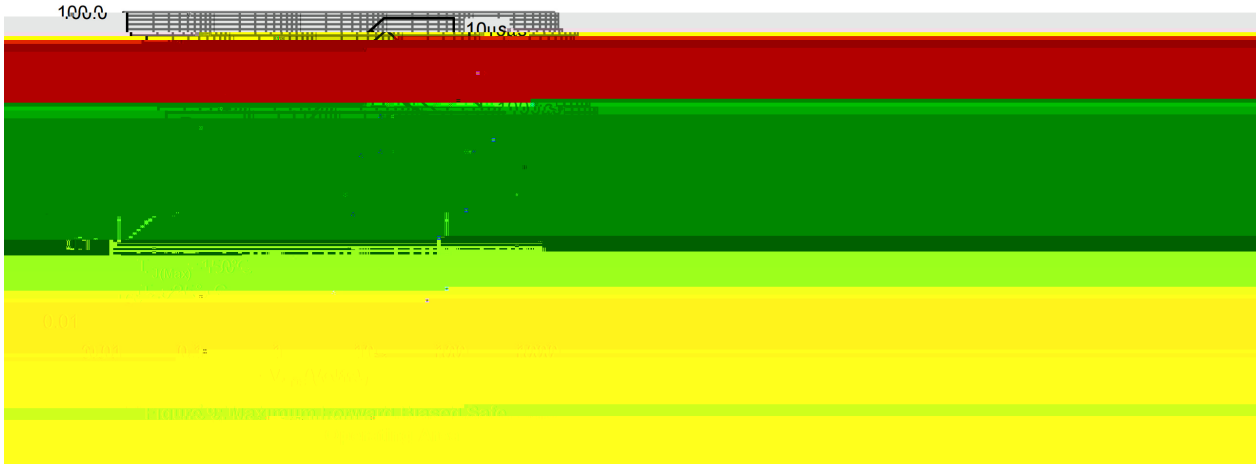
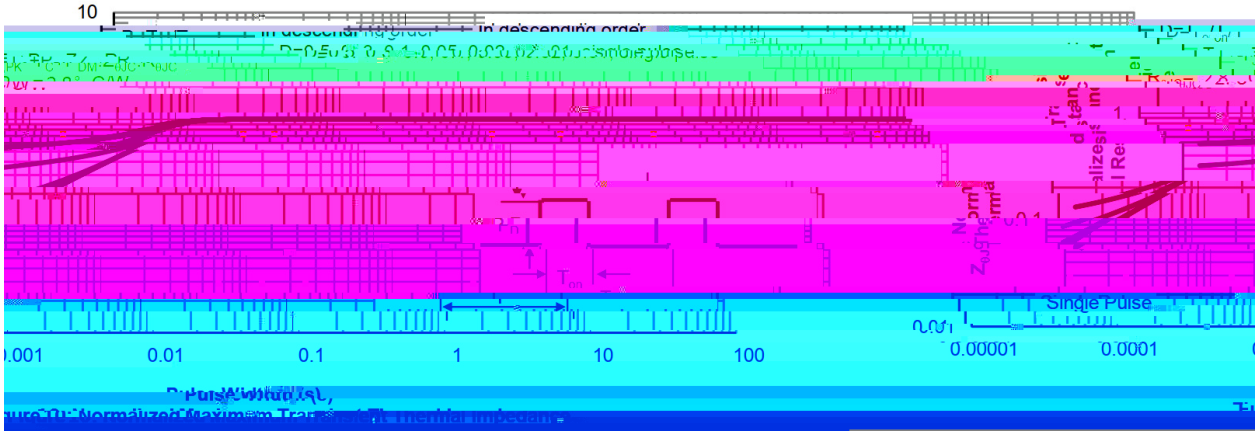


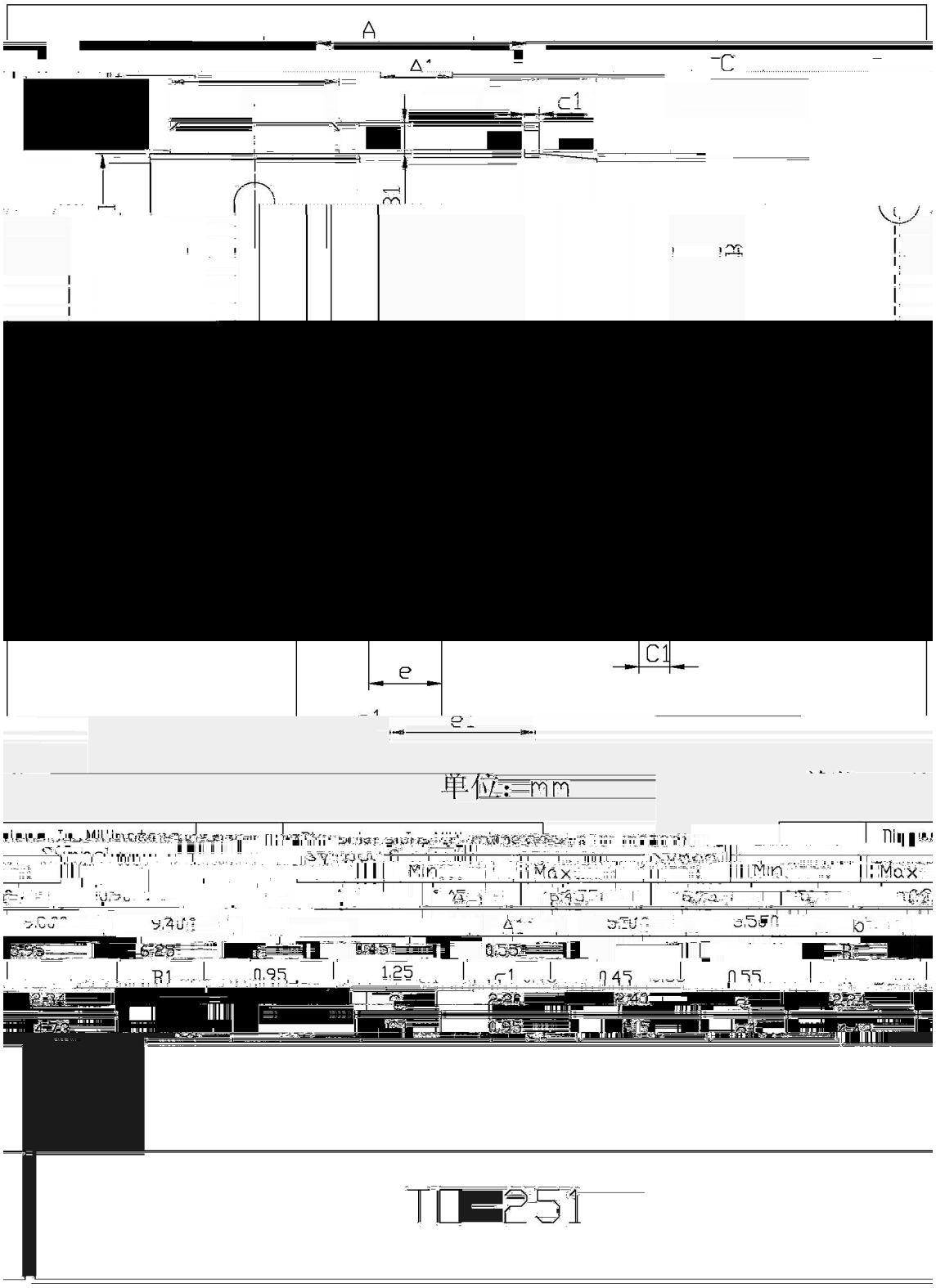
Figure 8: Capacitance Characteristics

Figure 7: Gate Charge Characteristics

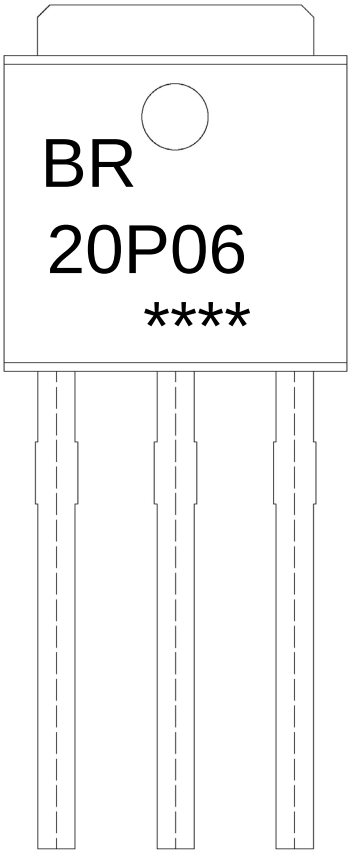




/ Package Dimensions



/ Marking Instructions



BR

20P06

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Note:

BR:	Company Code
20P06:	Product Type Code
****:	Lot No. Code, code change with Lot No