/ Descriptions

TO-252 N

N-CHANNEL MOSFET in a TO-252 Plastic Package.

/ Features

V_{DS}(V)=40V I_D=70A

$R_{DS(ON)}$@10V<6m (Typ. 5.6mR)

$R_{DS(ON)}$)@4.5V<12m (Typ. 10.8mR)

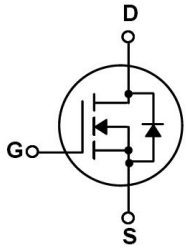
HF Product.

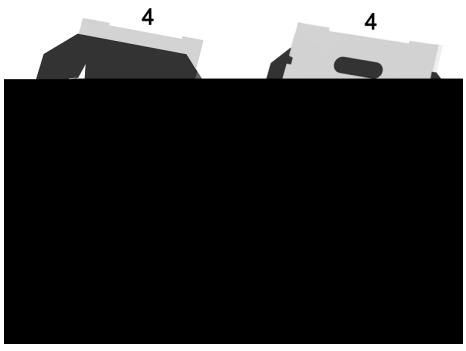
/ Applications

DC/DC Â ¾ Î

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

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PIN1 G PIN 2 D PIN 3 S PIN 4 D

Ƙ / Marking

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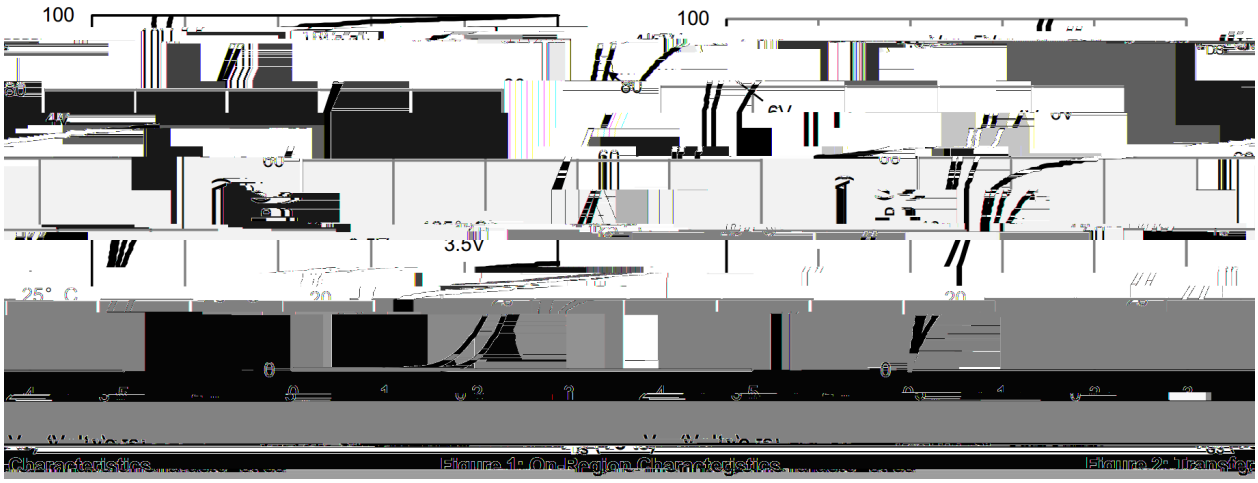
See Marking Instructions.

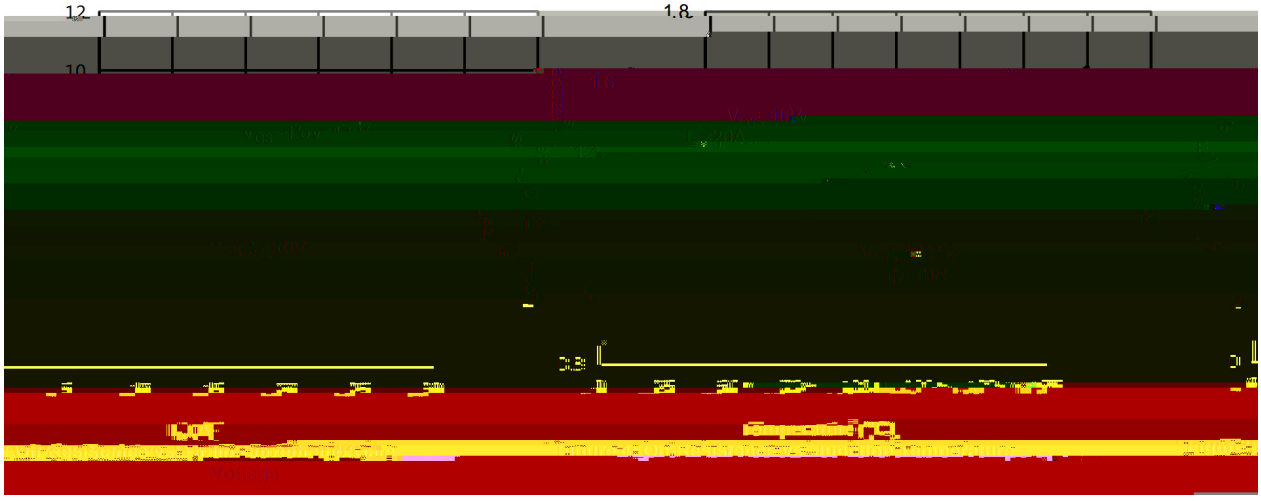
Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DSS}	40	V
Drain Current		I_D(Tc=25)	70	A
Drain Current - Pulsed		I_{DM}	159	A
Gate-Source Voltage		V_{GS}	± 20	V
Avalanche Current		I_{AS}	24.5	A
Single Pulsed Avalanche Energy(L=0.5mH)		E_{AS}	192	mJ
Power Dissipation		P_D(Tc=25)	50	W
Junction and Storage Temperature Range		T_J, T_{STG}	-55 to 150	
Thermal Resistance-Junction to Ambient	t ≤ 10s	$R_{\theta JA}$	20	/W
	Steady-State		50	
Thermal Resistance-Junction to Case	Steady-State	$R_{\theta JC}$	2.5	

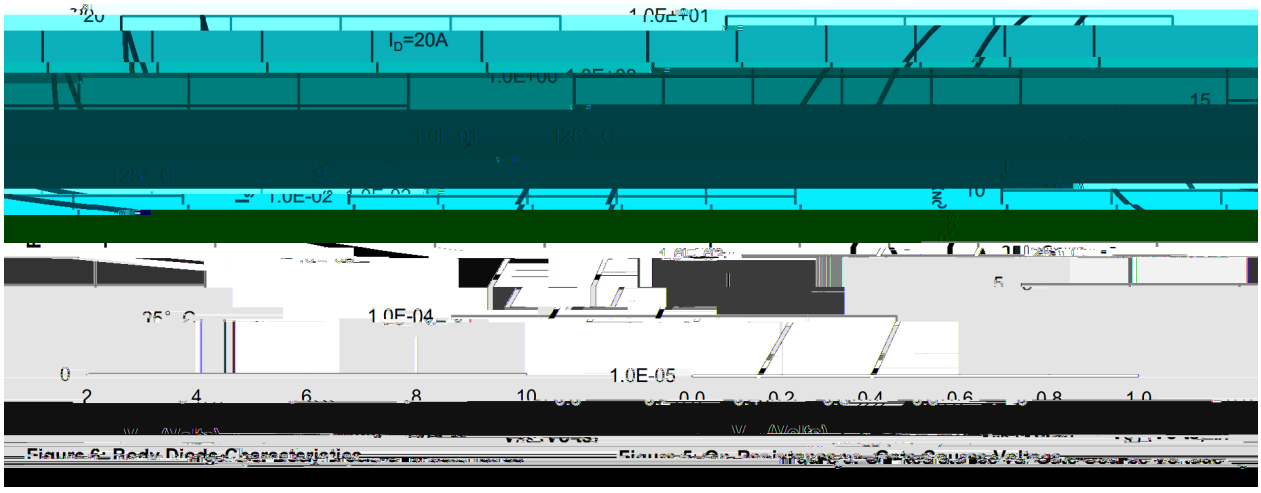
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=250 A	40	46		V
Zero Gate Voltage Drain Current	I					

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit

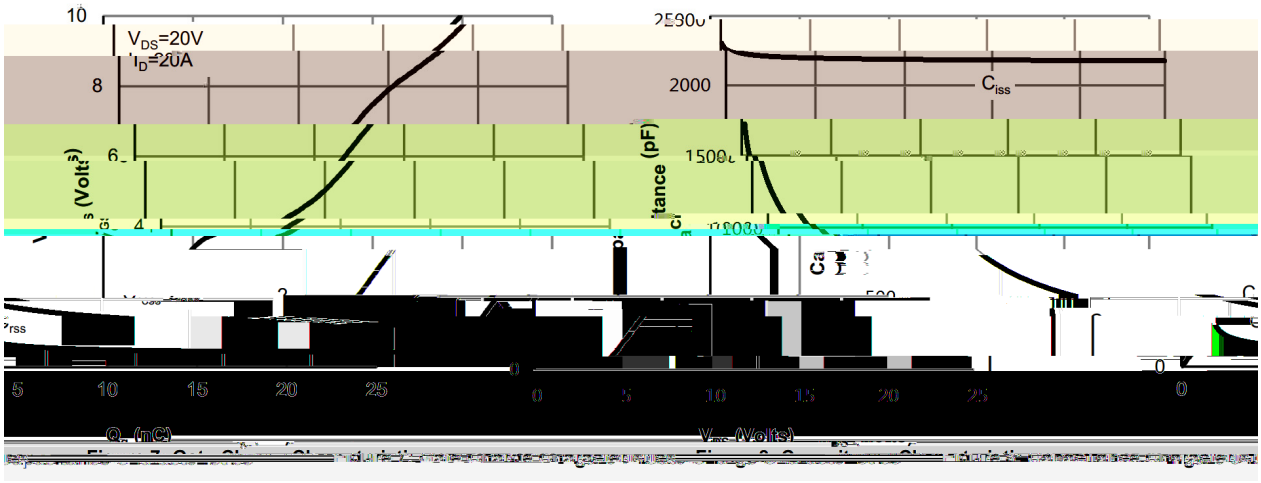
/ Electrical Characteristic Curve

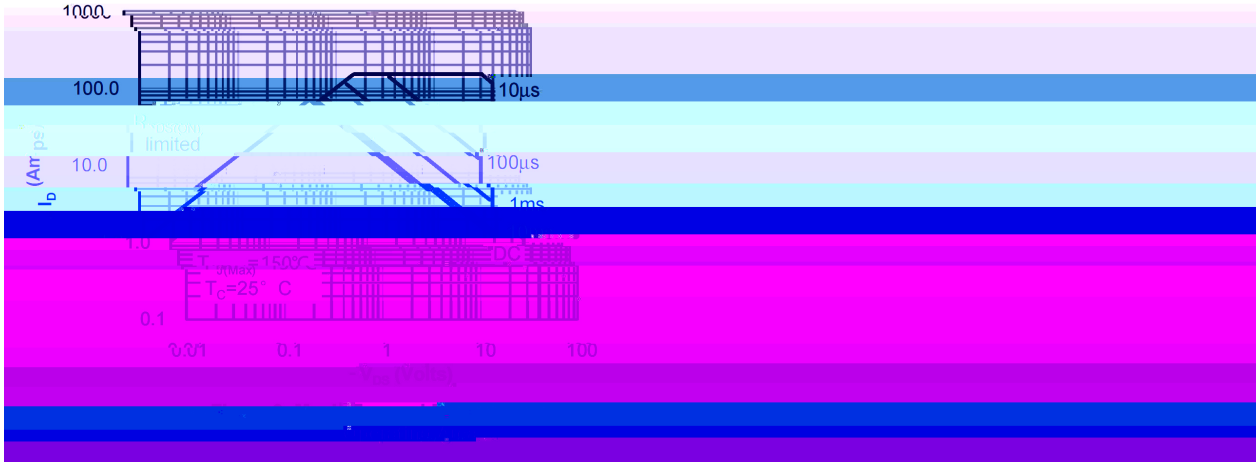


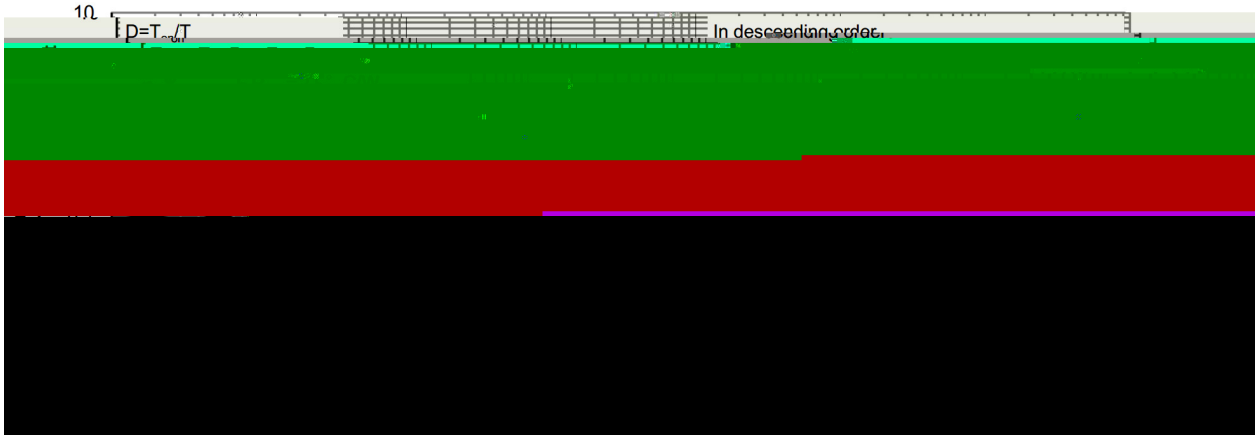




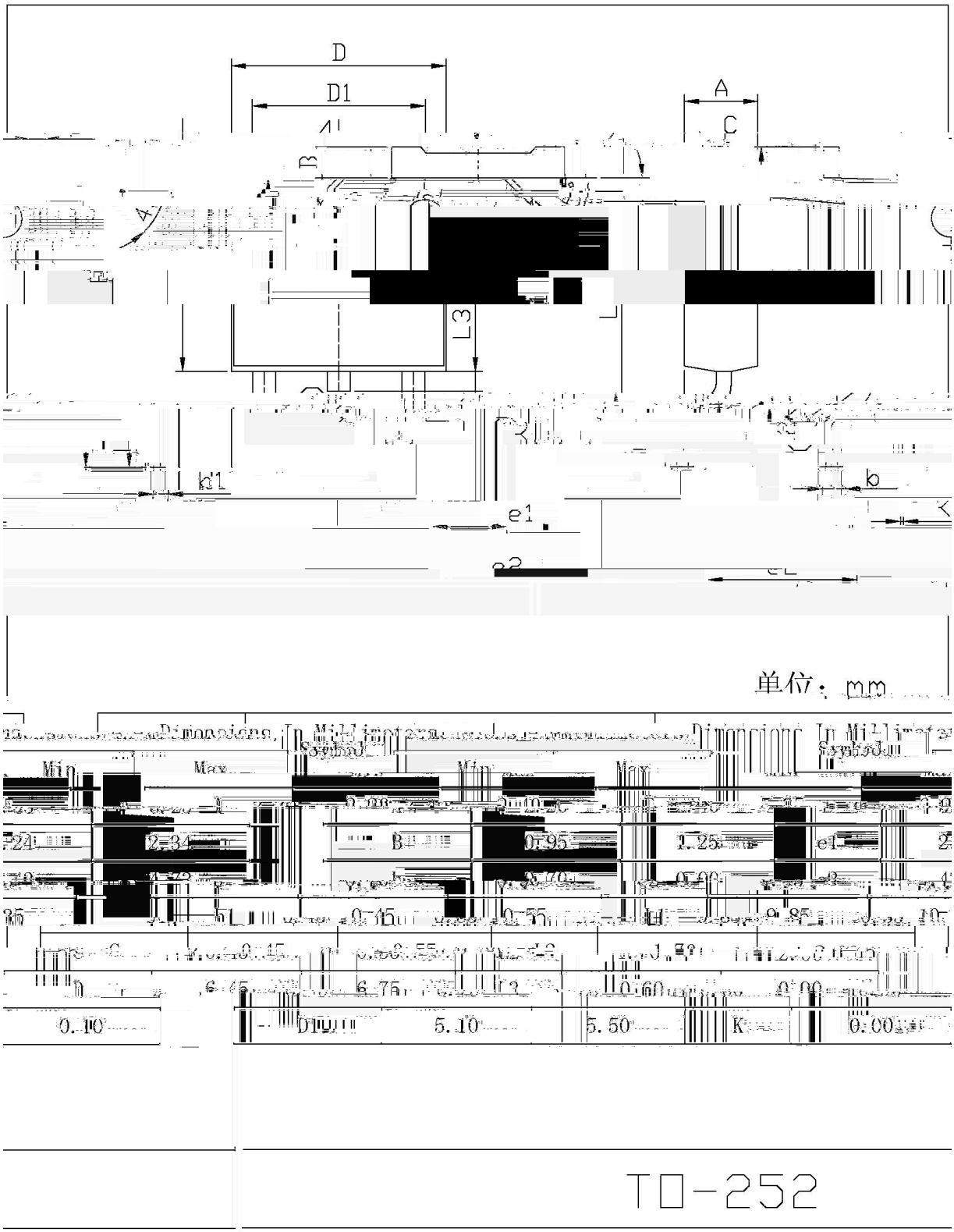
/ Electrical Characteristic Curve



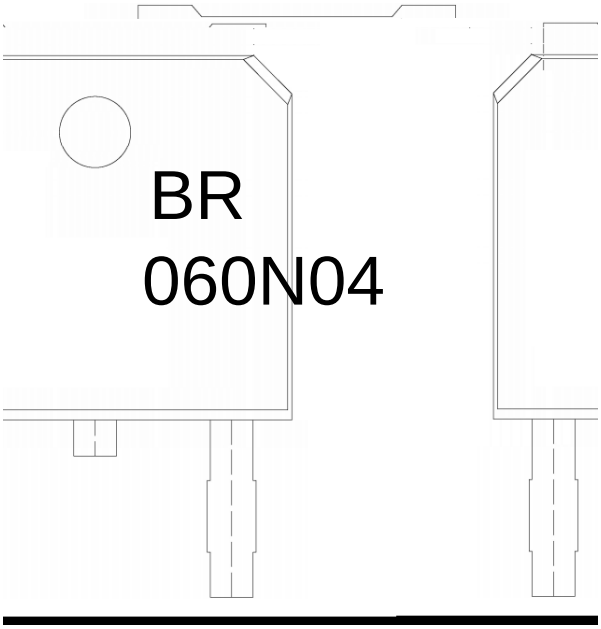




/ Package Dimensions



/ Marking Instructions



BR

060N04

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Note:

BR:	Company Code
060N04:	Product Type Code
****:	Lot No. Code, code change with Lot No

BRCS060N04DP