SOP-8 MOS

Complementary Enhancement MOSFET in a SOP-8 Plastic Package.

N-channel	P-channel
V_{DS}(V)=60V	V_{DS}(V)=-60V
I_D=9.7A	I_D-3.4A
$R_{DS(ON)}$<16m ¡ (V_{GS}=10V)	$R_{DS(ON)}$<100m ¡ (V_{GS}=-10V)
$R_{DS(ON)}$<22m ¡ (V_{GS}=4.5V)	$R_{DS(ON)}$<130m ¡ (V_{GS}=-4.5V)

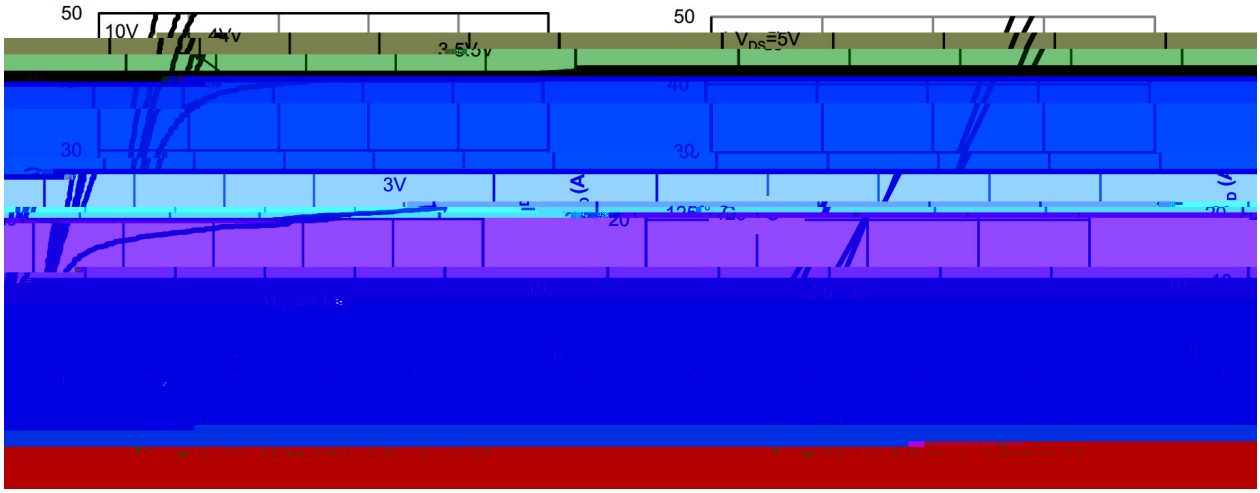
AEC-Q101 Qualified to AEC-Q101 Standards for High Reliability, HF Product.

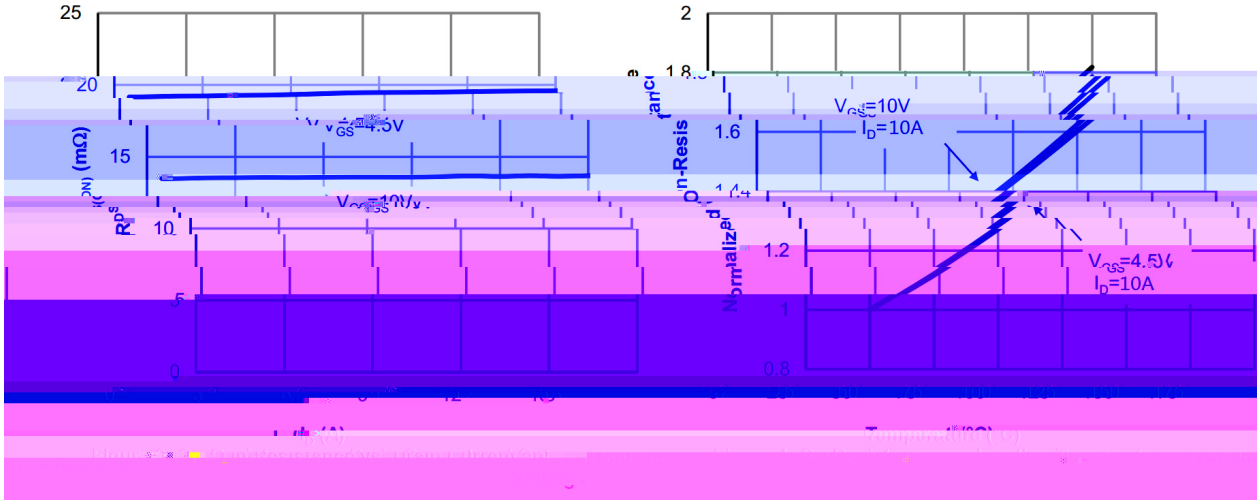
DC/DC ¨Ω_ ß

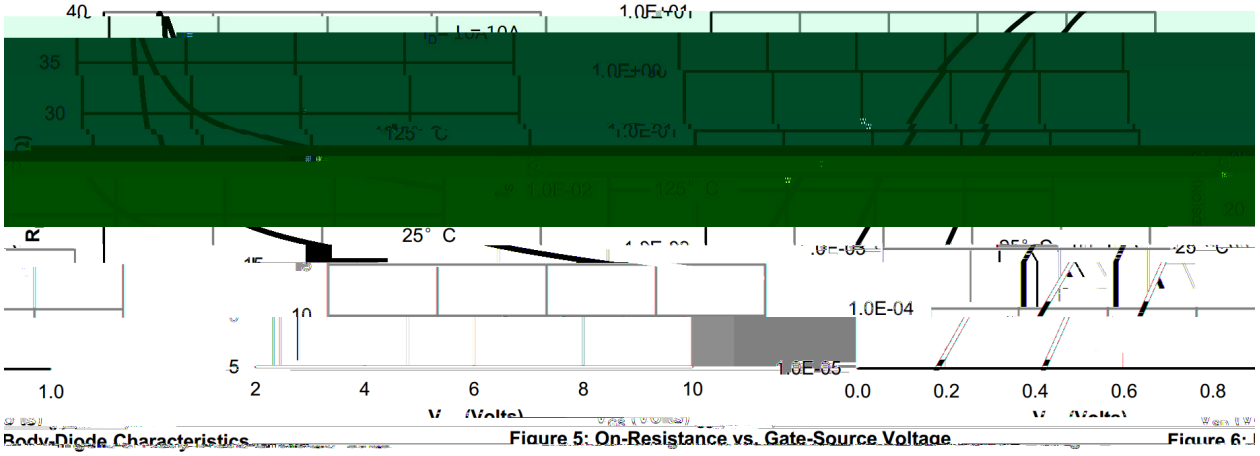
Ã a ? d / Absolute Maximum Ratings(Ta=25 ;)

Parameter	Symbol		Rating		Unit
			N-channel	P-channel	
Drain-Source Voltage	V_{DSS}		60	-60	V
Gate-Source Voltage	V_{GSS}		±20		V
Continuous Drain Current	I_D (T_A=25)		9.7	-3.4	A
Pulsed Drain Current	I_{DM}		±40		A
Power Dissipation	P_D (T_A=25)		2.7	1.9	W
Maximum Junction-to-Ambient	R_{JA}	t ”10s	46.3	65.8	/W
		Steady-State	72	100	/W
Junction and Storage Temperature Range	T_J,T_{STG}		-55 to +150		

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Body-Diode Characteristics Figure 5: On-Resistance vs. Gate-Source Voltage Figure 6:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=-250 A	-60	-71		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=-60V V_{GS}=0V			-1.0	A
Gate-Body leakage current	I_{GSS}	V_{GS}=±20V V_{DS}=0V			±100	nA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=-250 A	-1.0	-1.7	-2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	V_{GS}=-10V I_D=-10A		87	100	m
		V_{GS}=-4.5V I_D=-10A		104	130	m
Diode Forward Voltage	V_{SD}	V_{GS}=0V I_S=-1.0A			-1.0	V
Input Capacitance	C_{iss}	V_{DS}=-25V V_{GS}=0V f=1.0MHz		1170		pF

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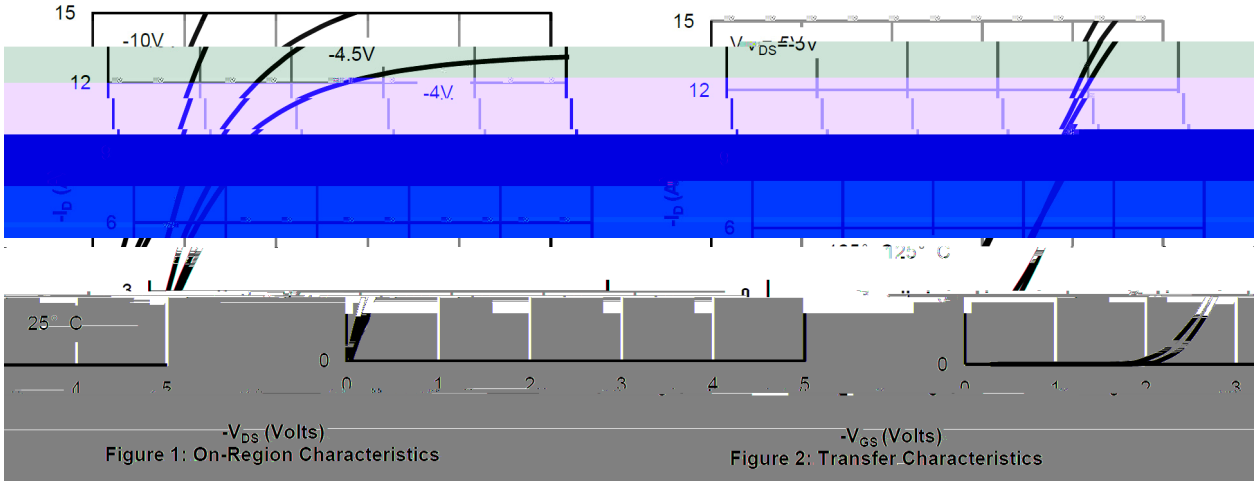
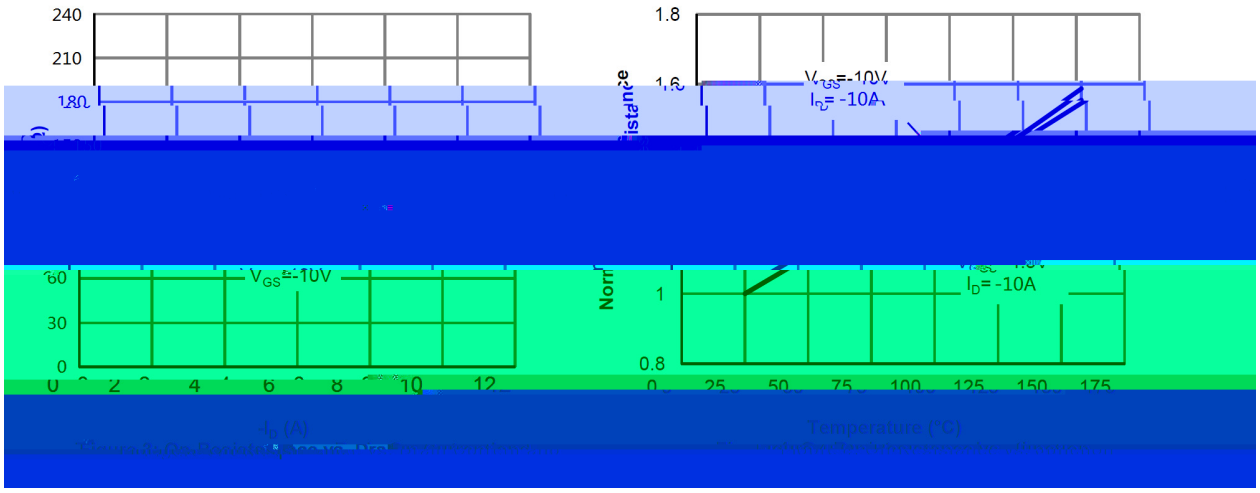


Figure 1: On-Region Characteristics

Figure 2: Transfer Characteristics



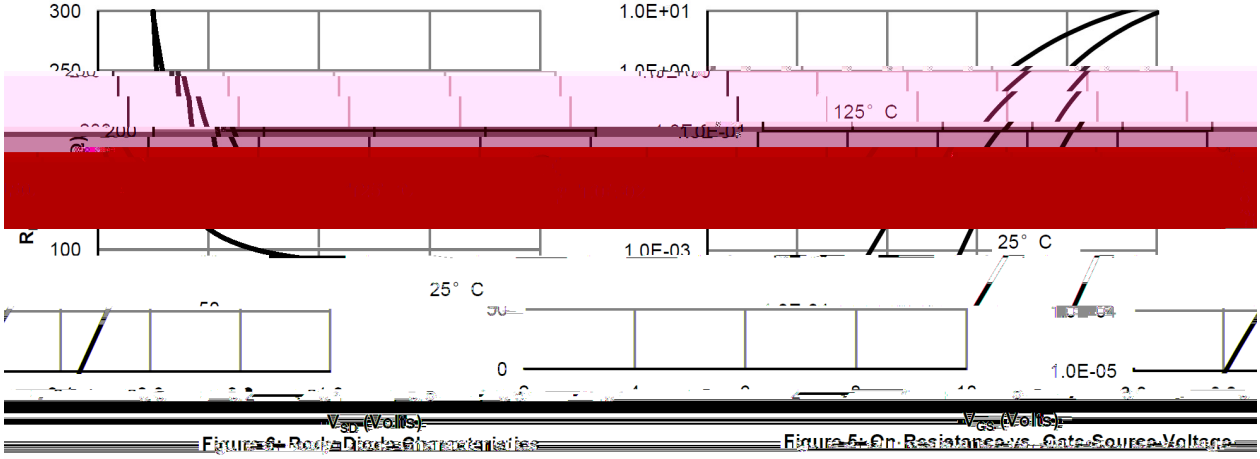
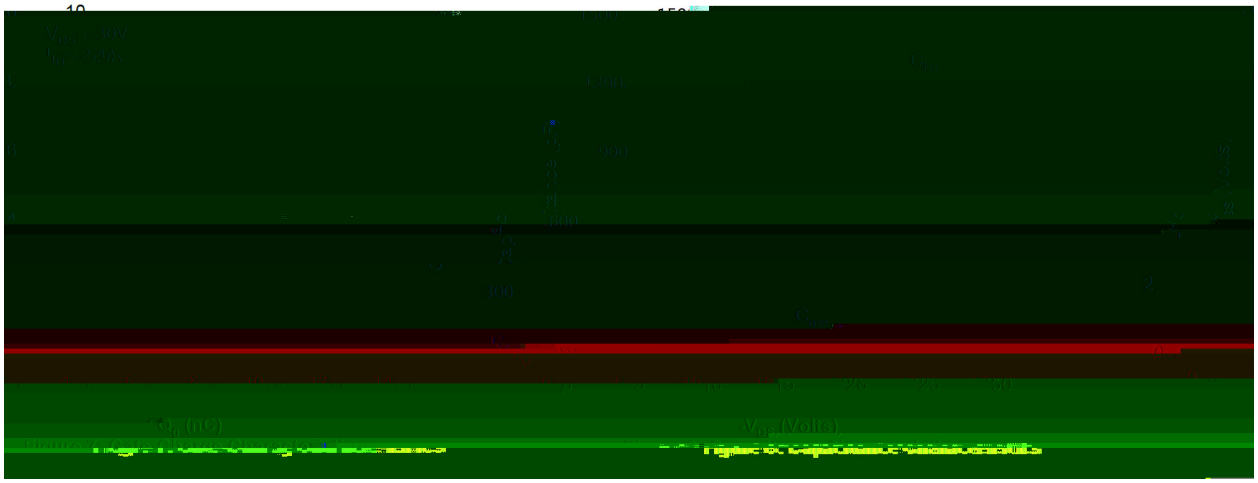
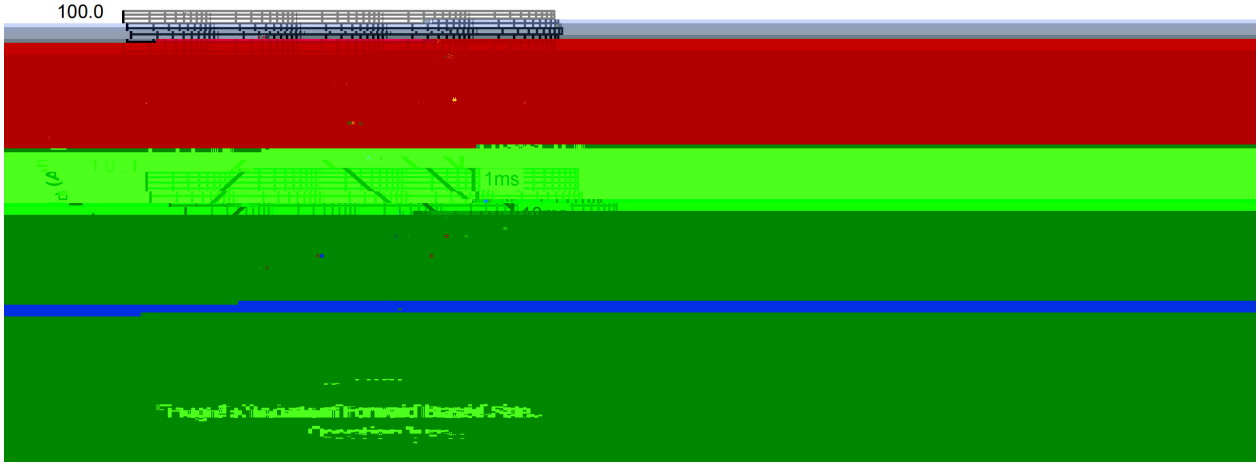


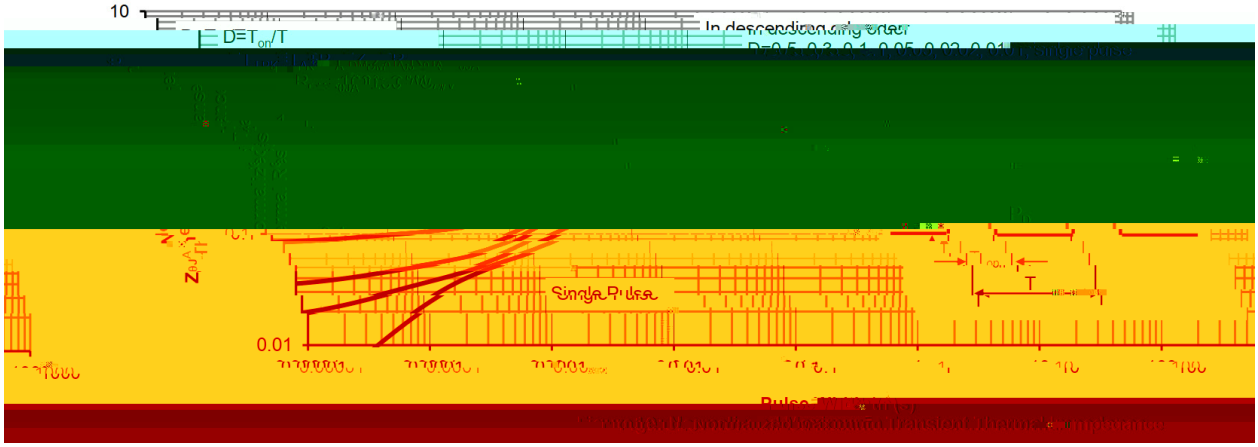
Figure 5: Body Diode Characteristics

Figure 5: On-Resistance vs. Gate-Source Voltage

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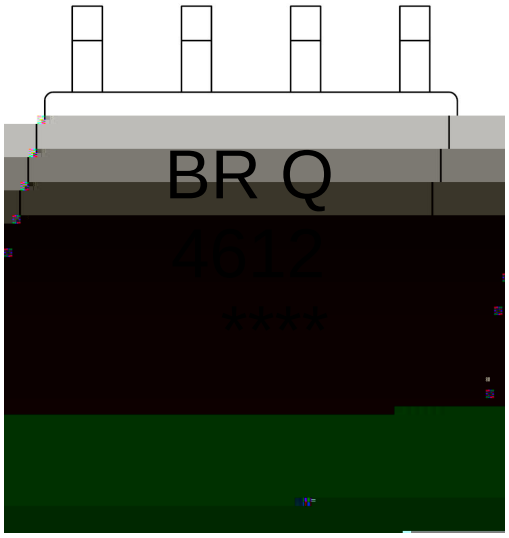




Ø ¤ =) ¢ / Package Dimensions



, M y ƒ / Marking Instructions



BR

Q

4612

****

Note:

BR:	Company Code
Q:	Automobile halogen-free product Code
4612:	Product Type Code
****:	Lot No. Code, code change with Lot No

š WD t … • Ž ¢ **(** x / **)** **/** : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6

Note:

1		150	200		60	120sec;	1.Preheating:150~200 , Time:60~120sec.
2		255±5				5±0.5sec;	2.Peak Temp.:255±5 , Duration:5±0.5sec.
3				2	10	/sec.	3. Cooling Speed: 2~10 /sec.

ÂD /Cã p ¯ »] **/** **Resistance to Soldering Heat Test Conditions**

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

G P á **/** **Packaging SPEC.**

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