/ Descriptions

TO-252 N MOS

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

/ Features

V_{DS}=60V ; I_D=20A

R_{DSON}@10V 37m (Type.25m)

R_{DSON}@4.5V 42m (Type.30m)

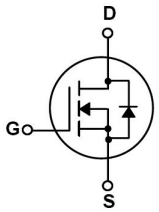
AEC-Q101 Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

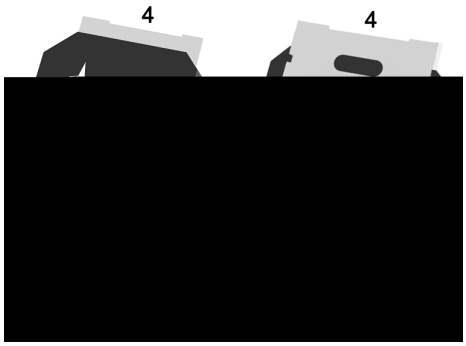
LED

Boost converters and synchronous rectifiers for consumer, telecom, industrial power supplies and LED backlighting, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 D PIN 3 S PIN 4 D

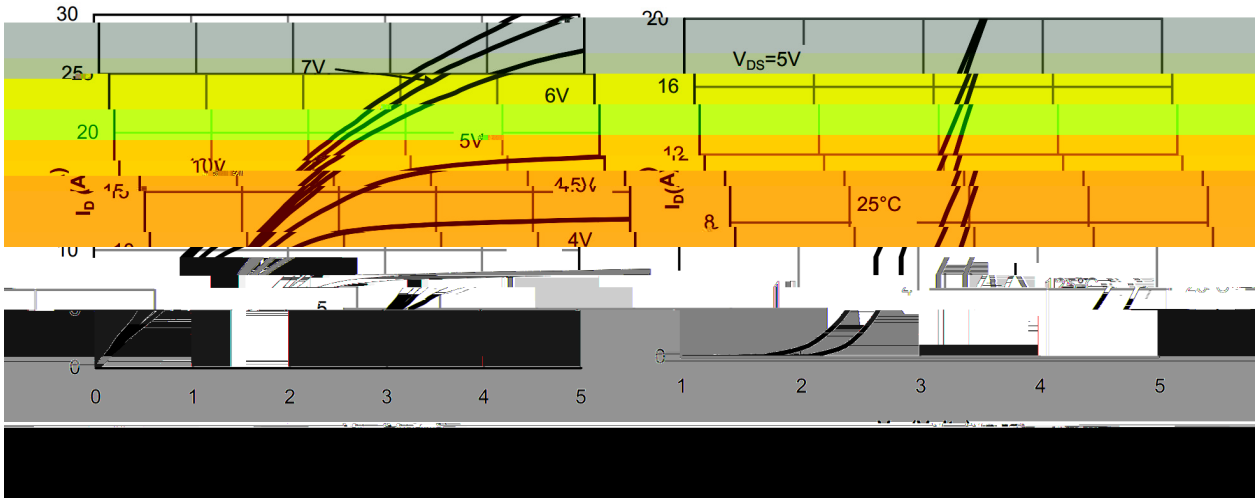
/ Marking

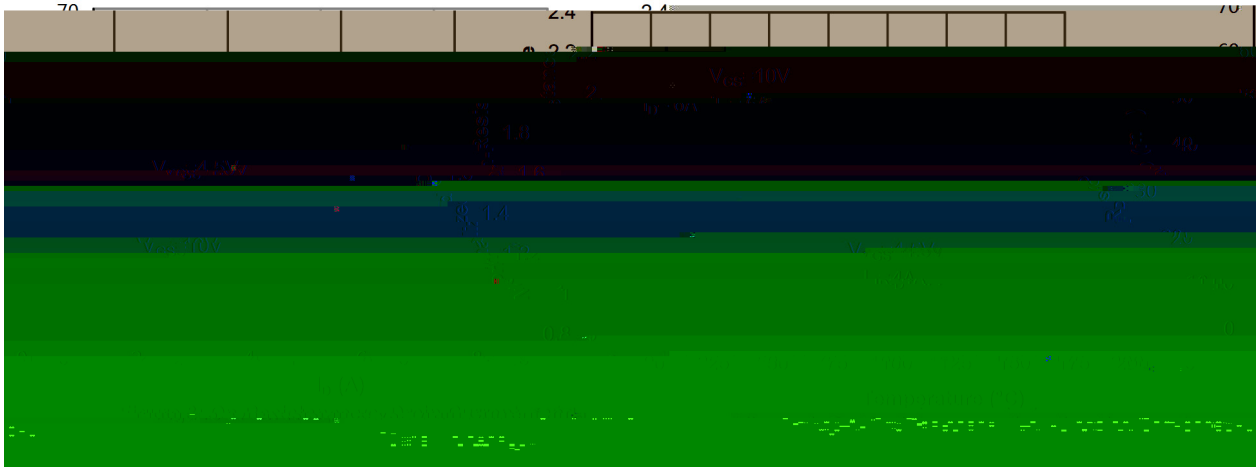
See Marking Instructions.

Parameter	Symbol	Rating

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=30V R_L=2.5 R_{GEN}=3.0		4.2		ns

/ Electrical Characteristic Curve





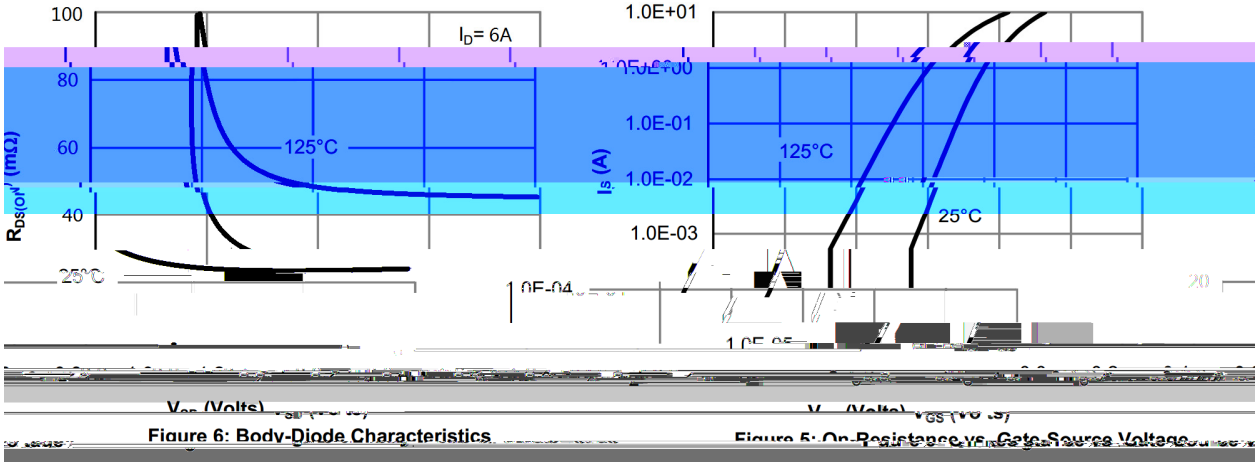


Figure 6: Body-Diode Characteristics

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

/ Electrical Characteristic Curve

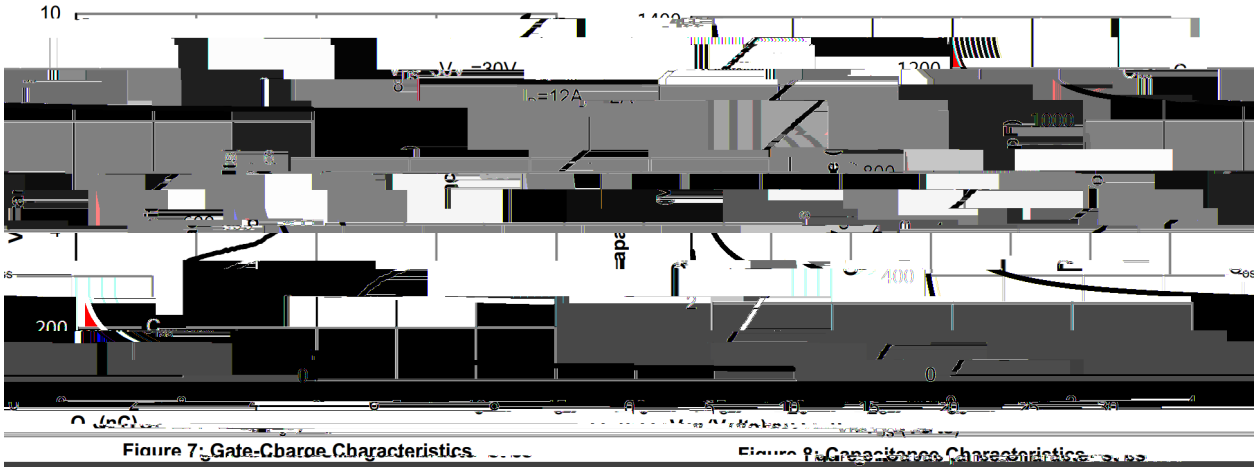
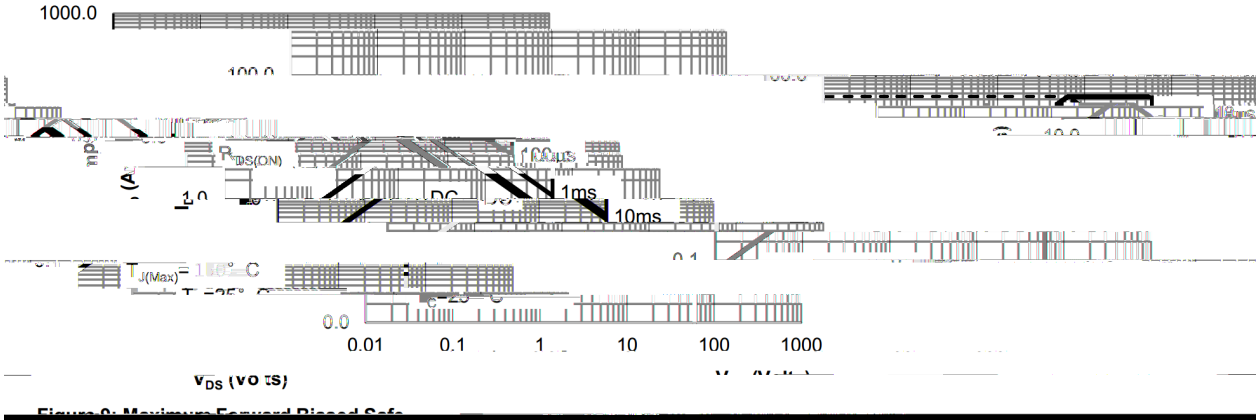


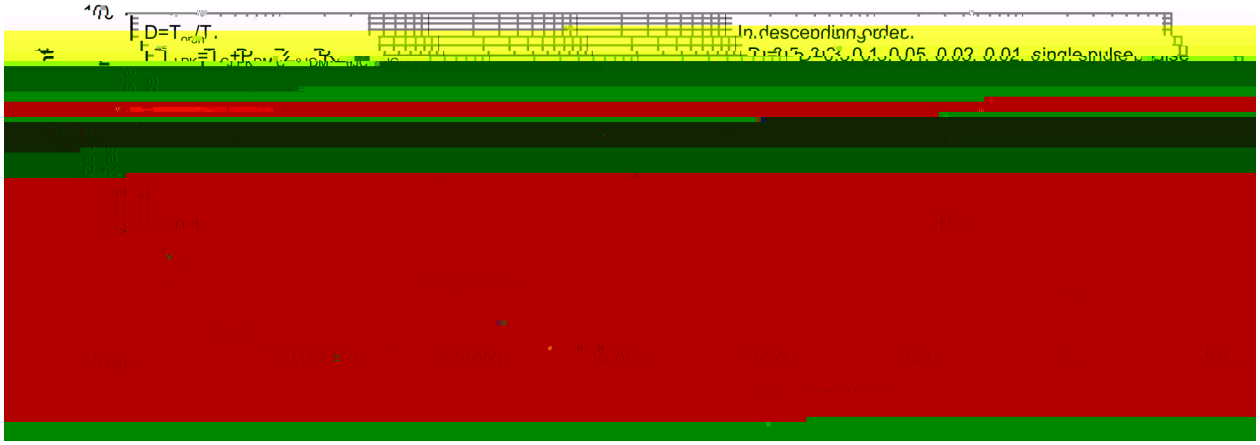
Figure 7: Gate-Charge Characteristics

Figure 8: Capacitance Characteristics

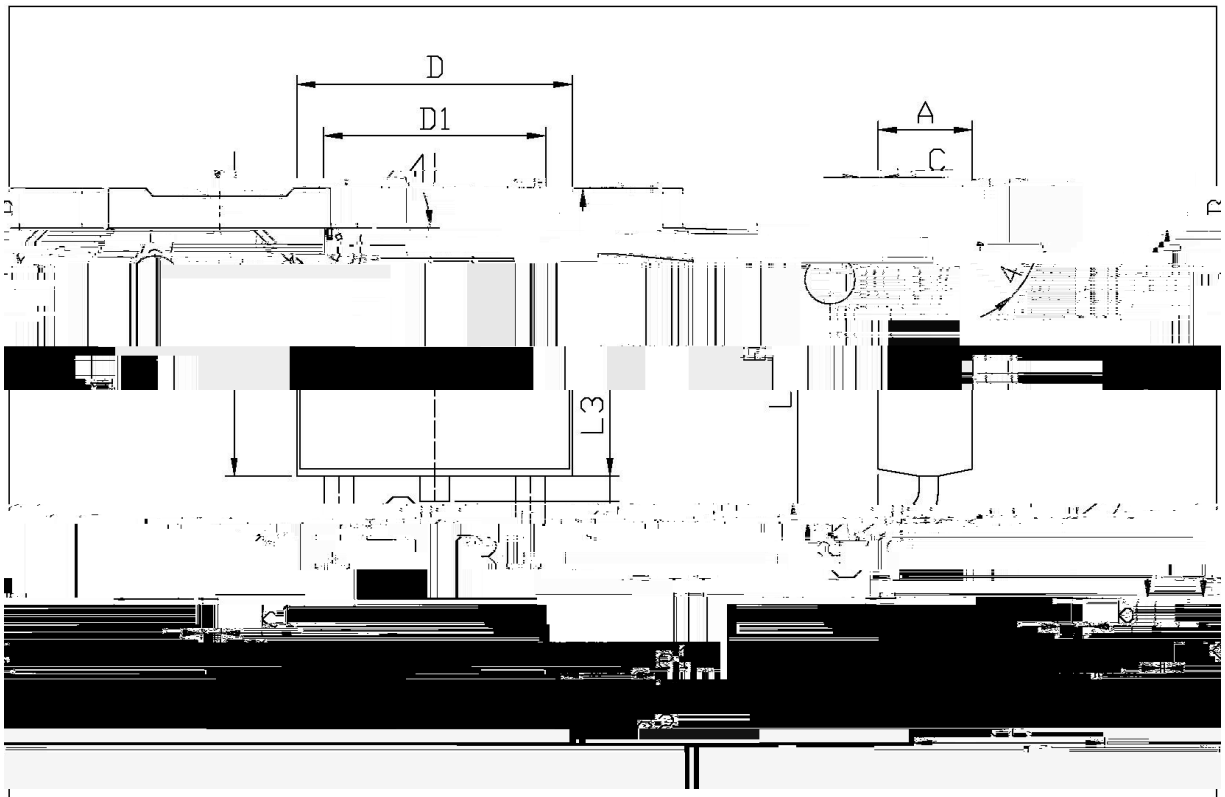


V_{DS} (volts)

Figure 9: Maximum Forward Biased Safe



/ Package Dimensions

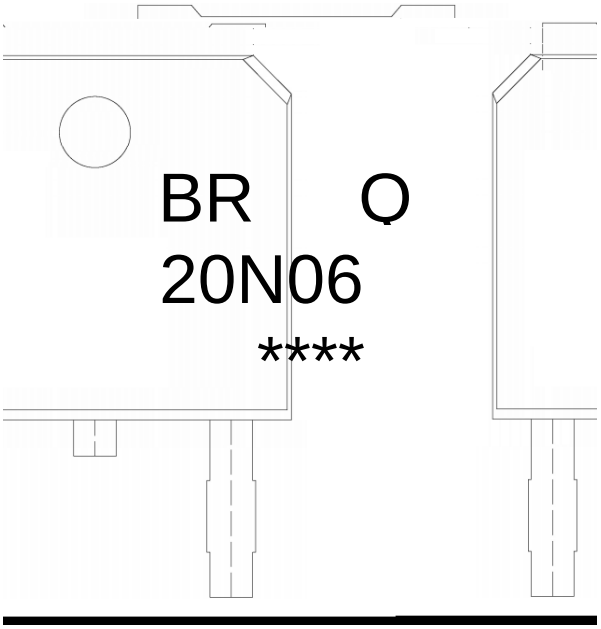


单位：mm

Symbol	Min.	Max.	Symbol	Min.	Max.
B	0.95	1.25	e1	2.24	2.3
h	0.45	0.55			
L1	5.10	5.50	K	0.00	0.10

TO-252

/ Marking Instructions



BR

Q

20N06

****

Note:

BR:	Company Code
Q:	Automobile halogen-free product Code
20N06:	Product Type Code
****:	Lot No. Code, code change with Lot No