

/ Descriptions

TO-220 N MOS N-CHANNEL MOSFET in a TO-220 Plastic Package.

/ Features

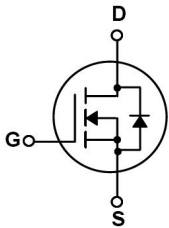
Low gate charge, low crss, fast switching.

/ Applications

DC/DC

These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 D PIN 3 S

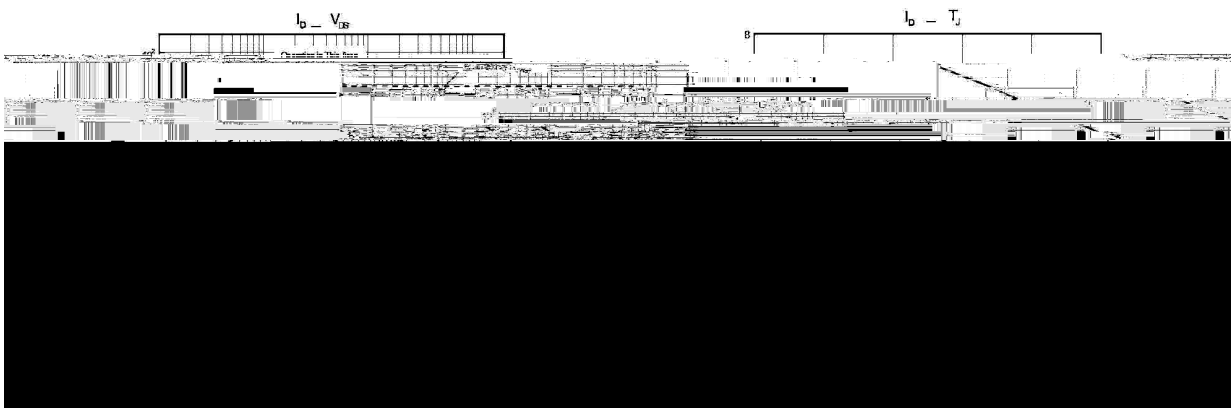
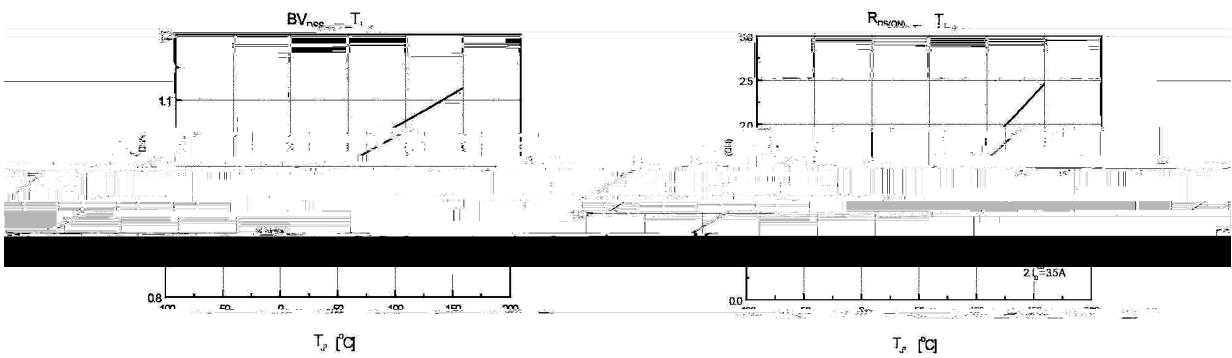
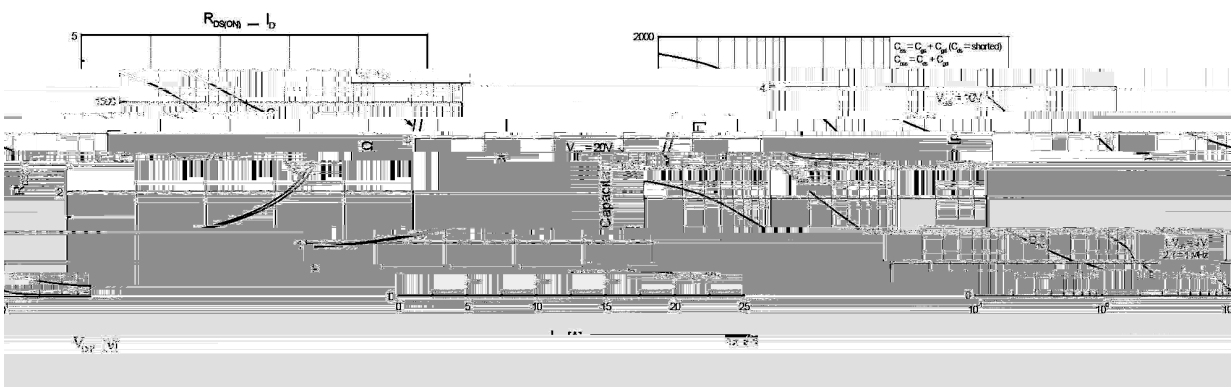
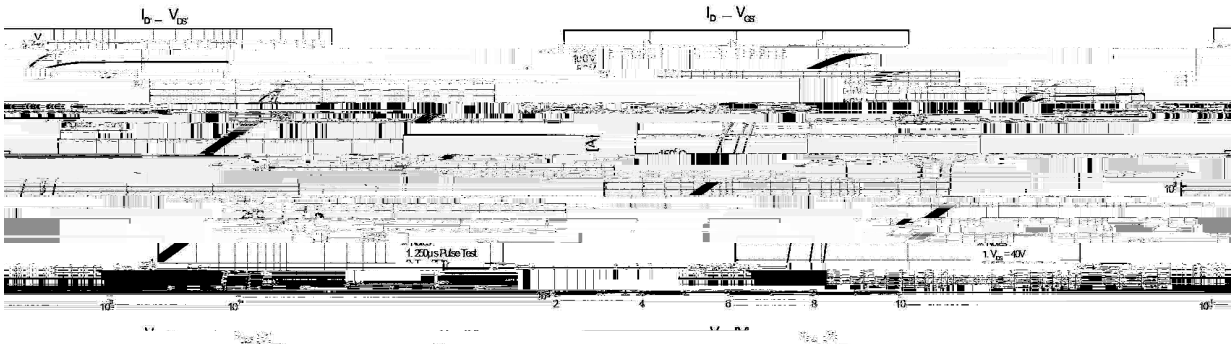
/ h_{FE} Classifications & Marking

See Marking Instructions.

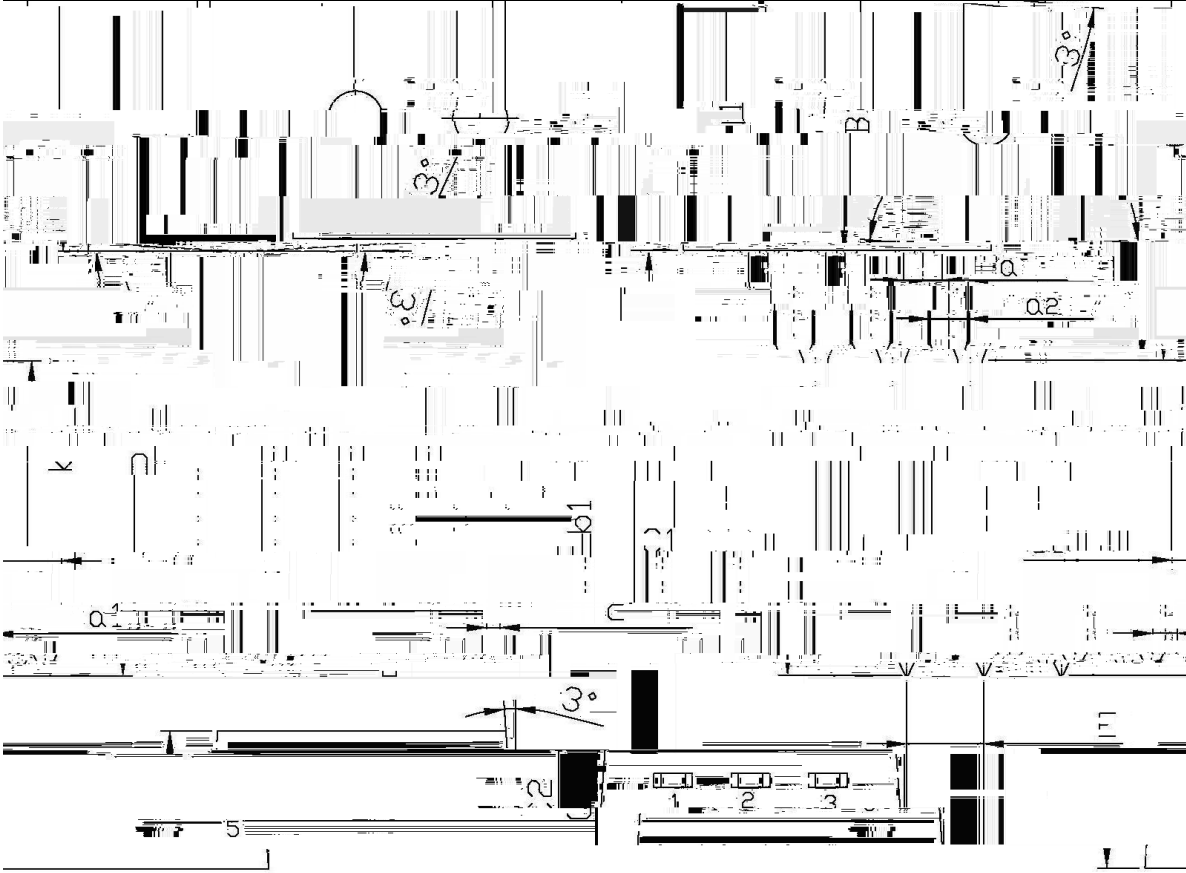
Symbol	Rating	Unit
V_{DSS}	600	V
$I_D(T_C=25^\circ C)$	7.0	A
$I_D(T_C=100^\circ C)$	4.4	A
I_{DM}	28	A
V_{GSS}	± 30	V
E_{AS}	420	mJ
E_{AR}	14.7	mJ
I_{AR}	7.0	A
$P_{TOT}(T_C=25^\circ C)$	147	W
T_J, T_{STG}	-55 to 150	

Conditions	Min	Typ	Max	Unit
$I_D=250\text{ A}$	600			V
$V_{GS}=0V$			1	A
$T_C=125$			100	A
$V_{DS}=0V$			± 100	nA

/ Electrical Characteristic Curve



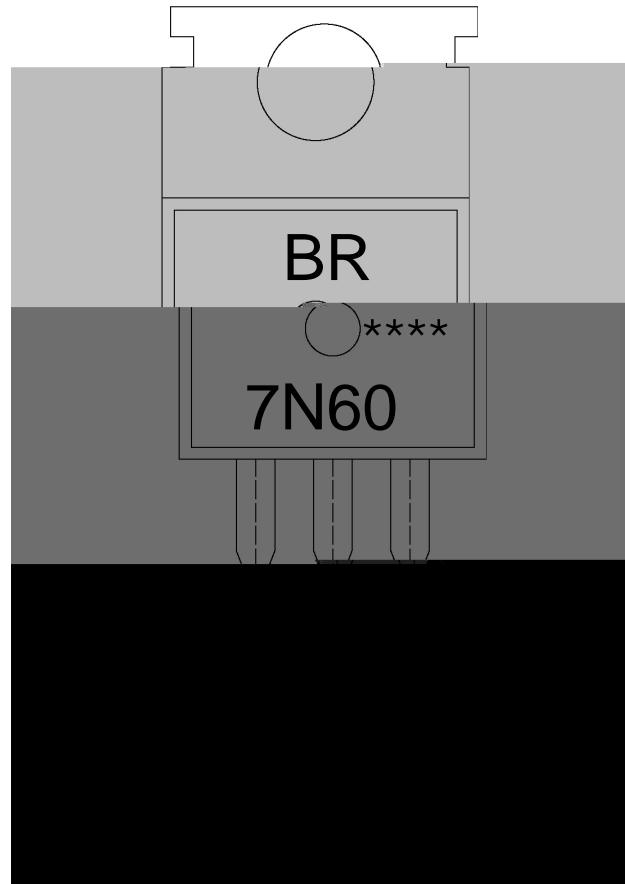
/ Package Dimensions



Dimensions in Millimeters

Symbol	Min	Max	Symbol	Min	Max
A	14	15.7	B	9.8	10.2
B	15.7	16.1	C	9.0	9.4
C	1.25	1.45	D	0.2	0.2

/ Marking Instructions



BR

7N60

Note:

BR: Company Code

7N60: Product Type.

****: Lot No. Code, code change with Lot No.

