

**/ Descriptions**

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

**/ Features**

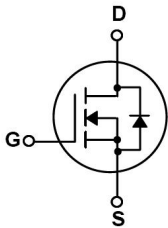
Low gate charge, low crss, fast switching.

**/ 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

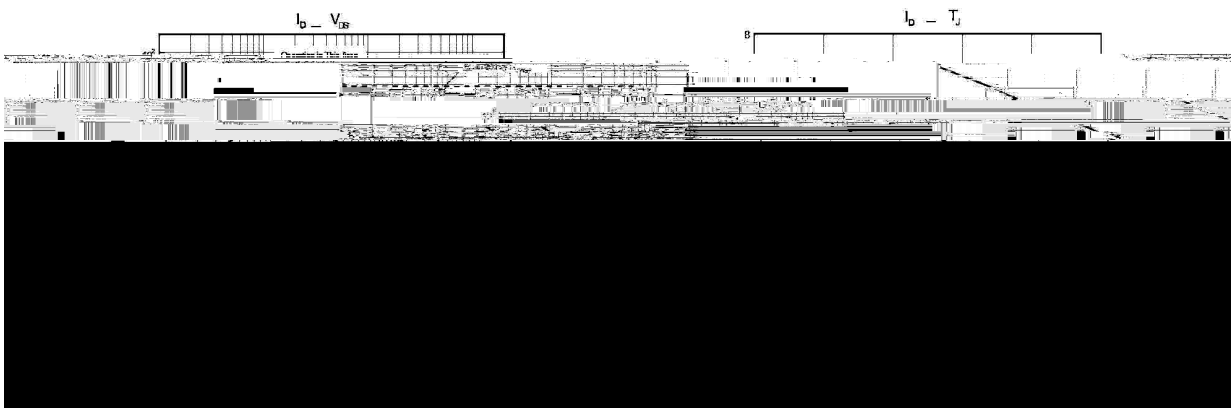
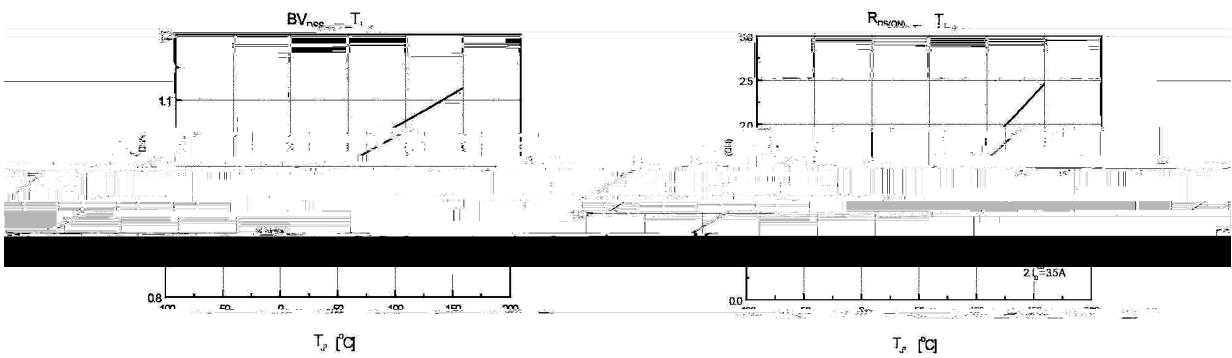
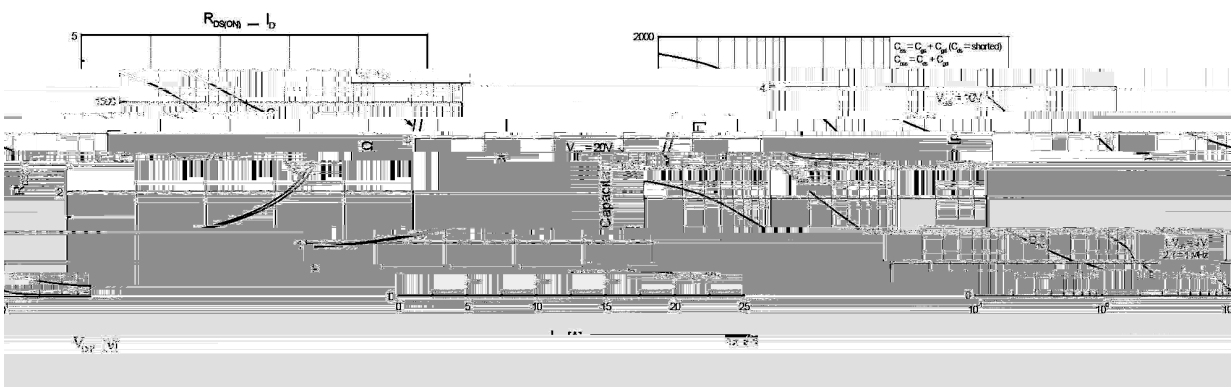
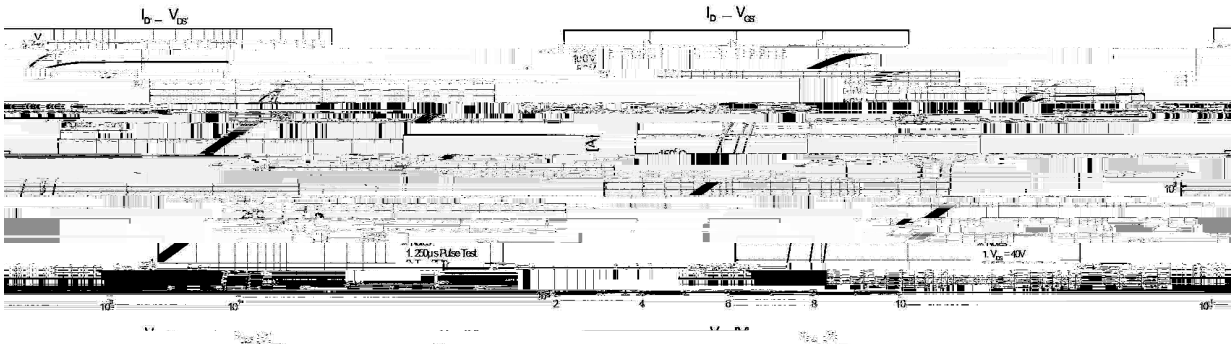
**/ h<sub>FE</sub> Classifications & Marking**

See Marking Instructions.

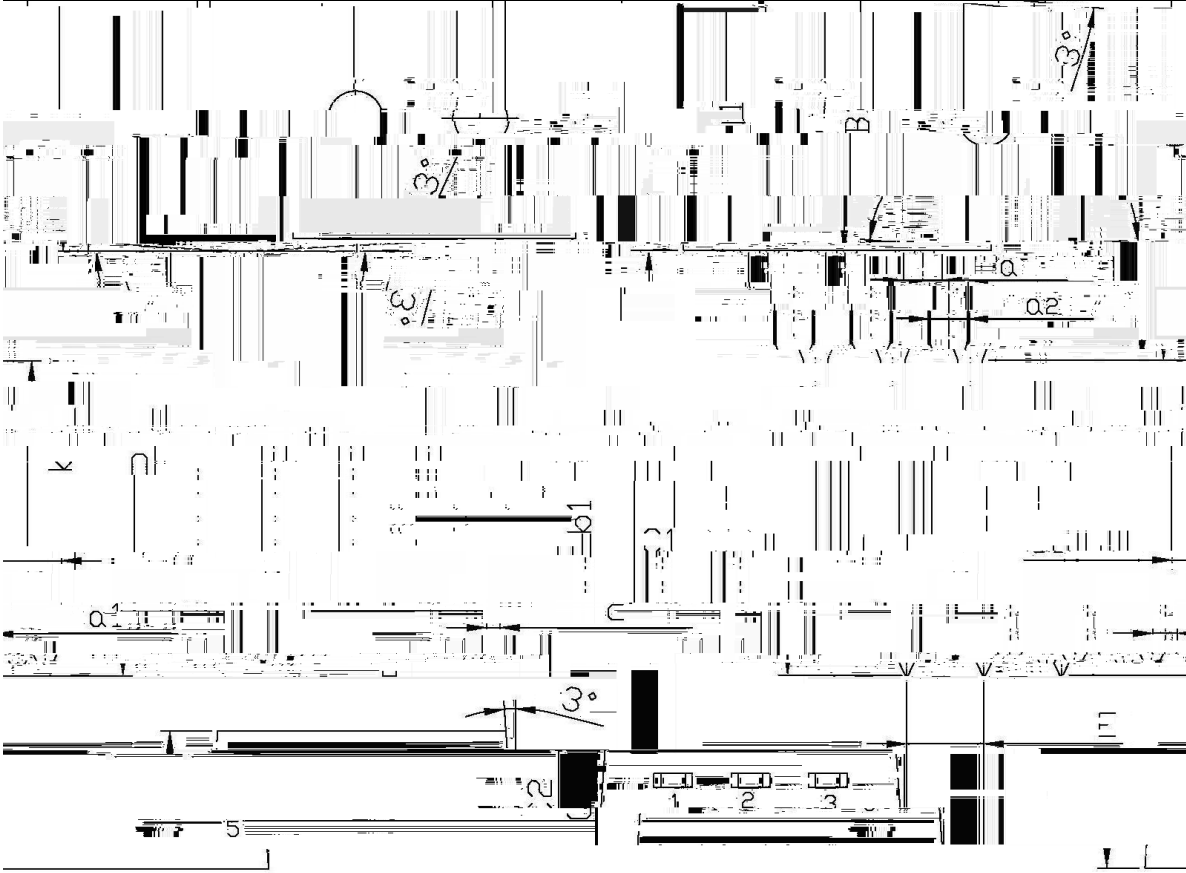
Symbol	Rating	Unit
$V_{DSS}$	600	V
$I_D$ ( $T_C=25^\circ C$ )	7.0	A
$I_D$ ( $T_C=100^\circ C$ )	4.4	A
$I_{DM}$	28	A
$V_{GSS}$	$\pm 30$	V
$E_{AS}$	420	mJ
$E_{AR}$	14.7	mJ
$I_{AR}$	7.0	A
$P_{TOT}$ ( $T_C=25^\circ C$ )	147	W
$T_J, T_{STG}$	-55 to 150	

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

/ Electrical Characteristic Curve

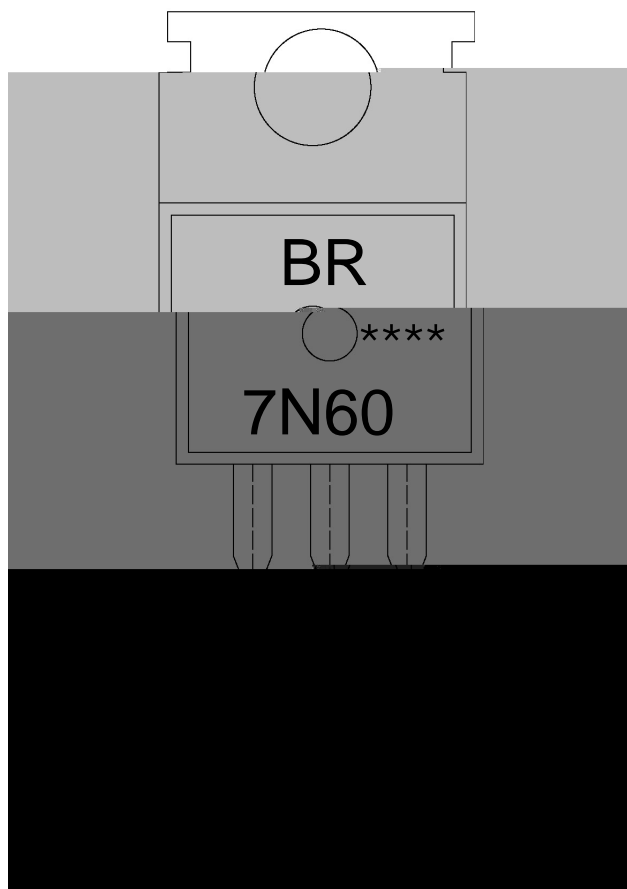


/ Package Dimensions



Dimensions in Millimeters		Dimensions in Millimeters	
Symbol	Max	Symbol	Max
A	14	A	9.8
B	56.3	B	2.56
C	4.7	C	10.2
D	15.7	D	9.0
E	16.1	E	9.4
F	0.61	F	0.2
G	0.2		
H	1.25		
I	1.45		

/ Marking Instructions



BR

7N60

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Note:

BR: Company Code

7N60: Product Type.

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

