

Rev.A Dec.-2023

TO-220 N

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

$V_{DS}=80V$ $I_D=155A$

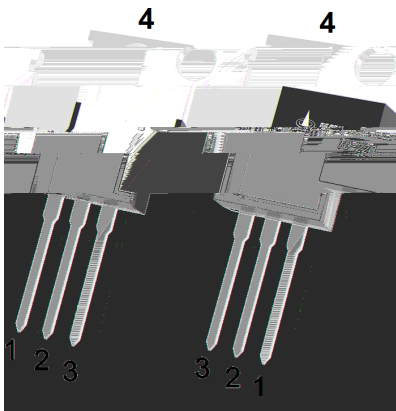
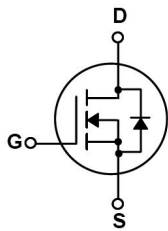
$R_{DS(on)}@10V \leq 4.5m\Omega$ (Type.3.8m Ω)

$R_{DS(on)}@6V \leq 9.0m\Omega$ (Type.5.3m Ω)

HF Product.

LED

Boost converters and synchronous rectifiers for consumer, telecom, industrial power supplies and LED backlighting.



PIN1 G

PIN 2 4 D

PIN 3 S

See Marking Instructions.

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=40V$ $R_L=2\Omega$ $R_{GEN}=3\Omega$		19		ns
Turn-On Rise Time	t_r			12.5		
Turn-Off Delay Time	$t_{d(off)}$			40		
Turn-Off Fall Time	t_f			8		

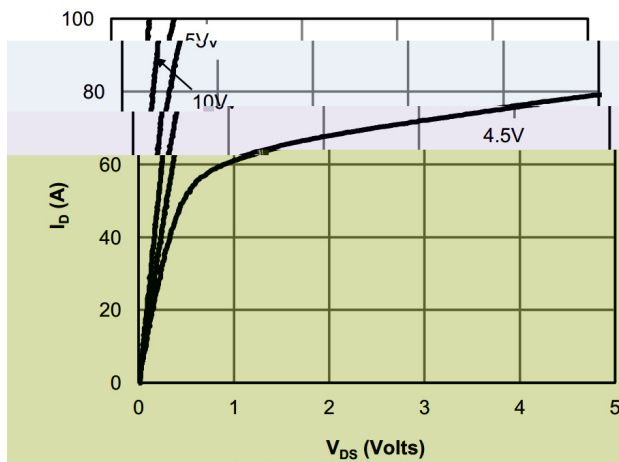


Figure 1: Drain Current Characteristics

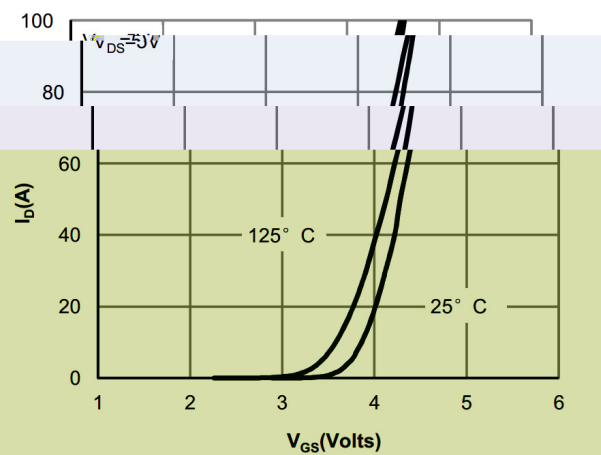


Figure 2: Transfer Characteristics

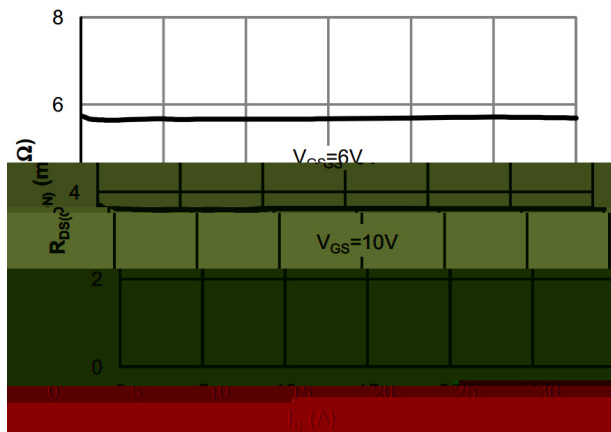


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

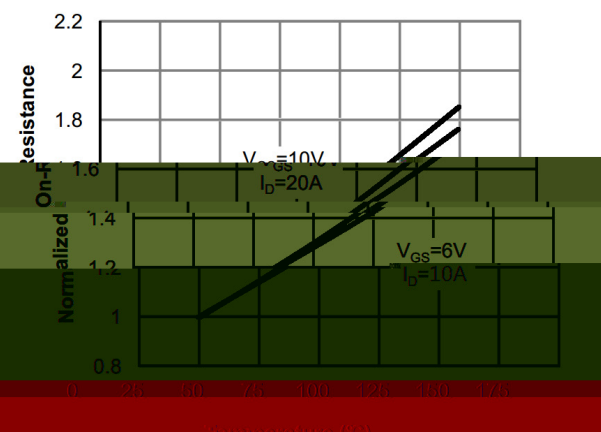


Figure 4: On-Resistance vs. Junction Temperature

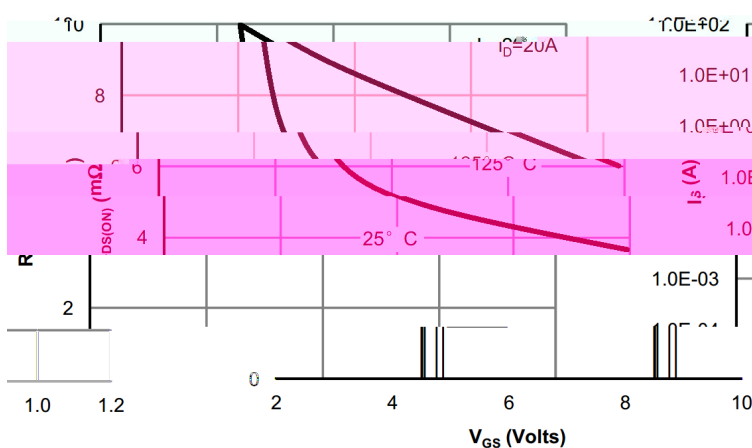


Figure 5: On-Resistance vs. Gate-Source Voltage

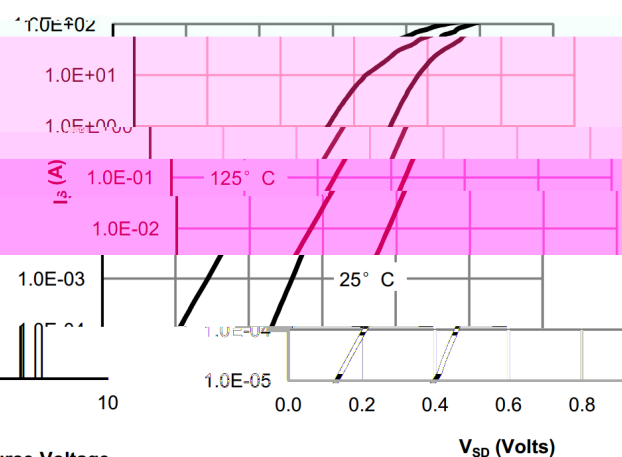
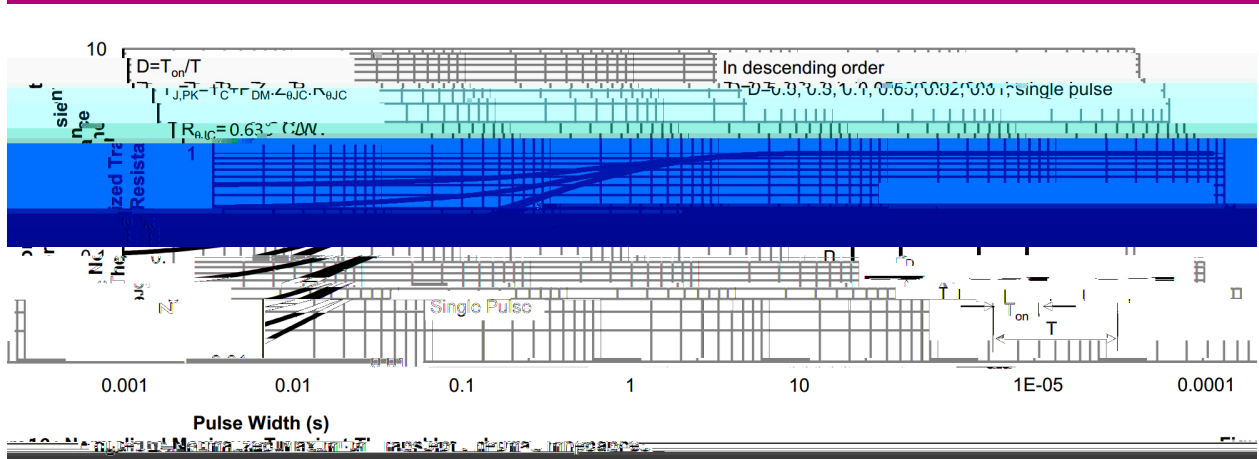
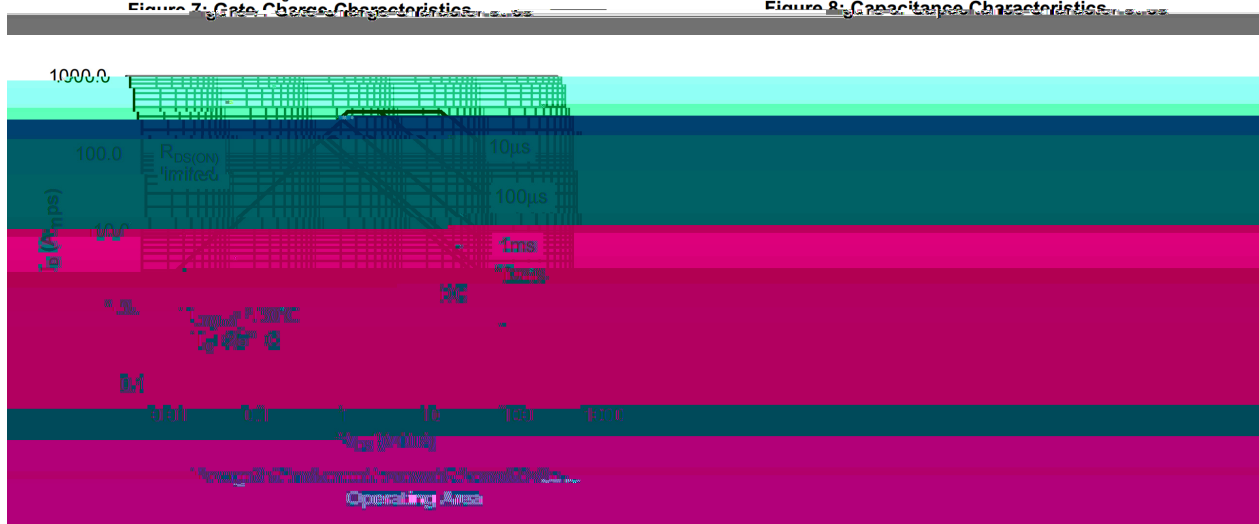
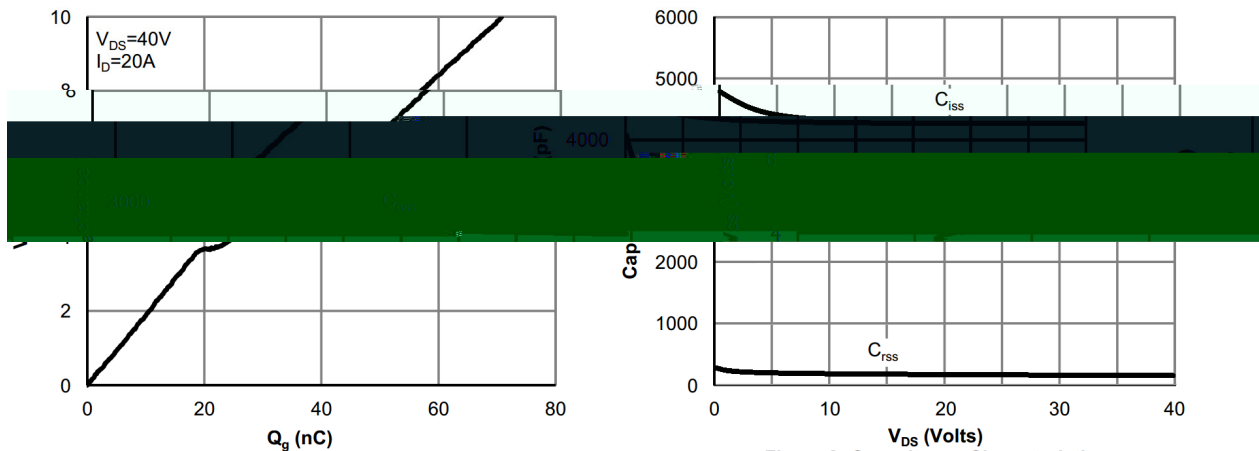
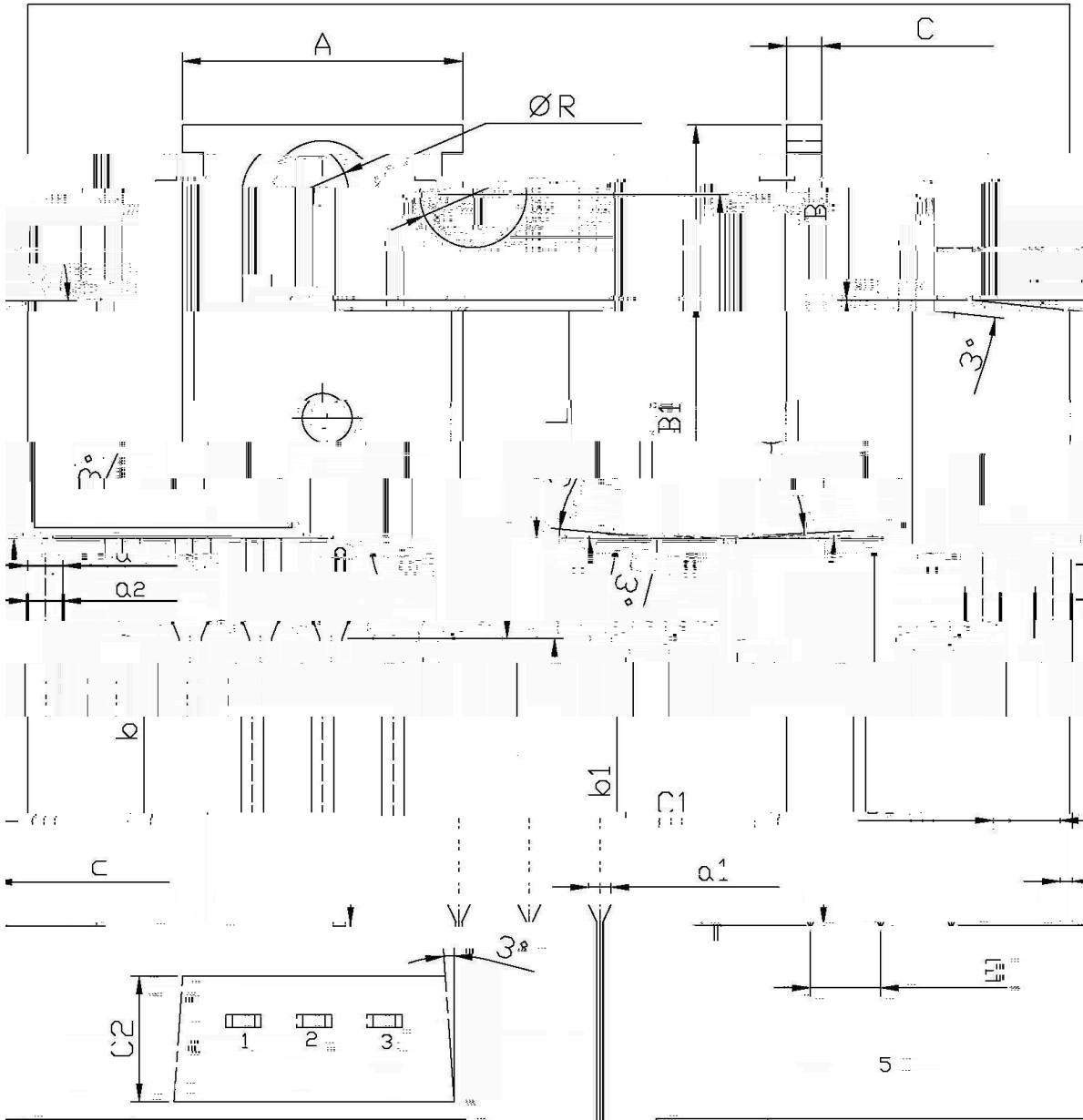


Figure 6: Body-Diode Characteristics

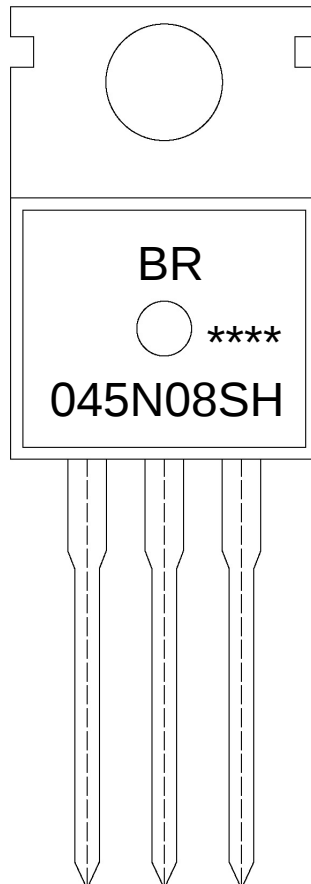


TD-220

单位: mm



Dimensions In Millimeters				Dimensions In Millimeters			
Symbol	Min	Max		Symbol	Min	Max	
A	9.8	10.2		C	1.2		
R	3.56	3.64		B	6.3		
B1	15.75	16.1		B1	9.0		
C1	12.6	13.6		C2	2.2		



BR

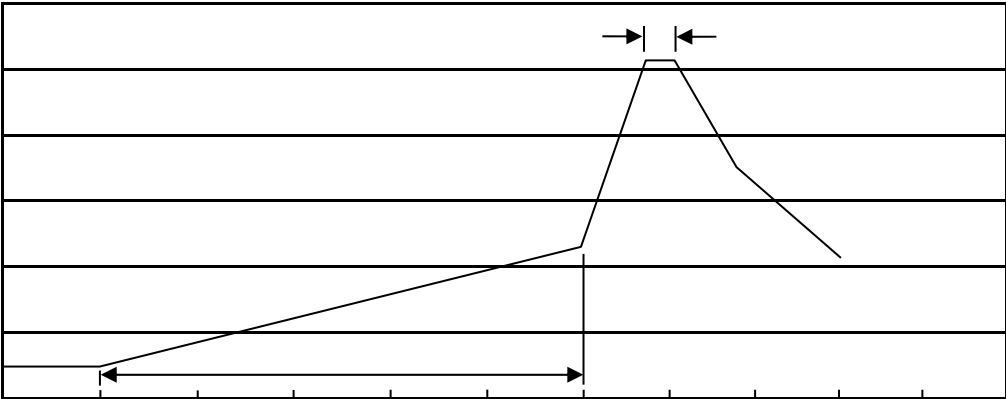
045N08SH

Note:

BR: Company Code

045N08SH: Product Type Code

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



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 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.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180