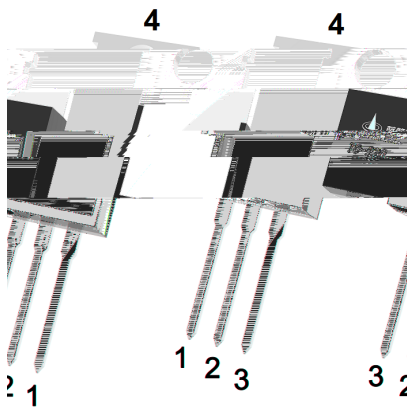
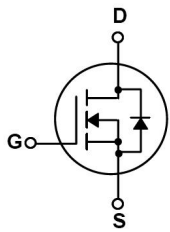


Rev.A Apr.-2023

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

$V_{DS}=150V$ $I_D=123A$ $V_{GS}=\pm 20V$
 $R_{DS(on)}@10V \leq 6.2m\Omega$ (Type.5.8m Ω)
 HF Product.

Telecom, Industrial Power Supply, Load switch.



PIN1 G PIN 2 4 D PIN 3 S

See Marking Instructions.

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=75V$ $R_L=2.5\Omega$ $R_{GEN}=3\Omega$		27.3		ns
Turn-On Rise Time	t_r			21		
Turn-Off Delay Time	$t_{d(off)}$			50.1		
Turn-Off Fall Time	t_f			29.3		

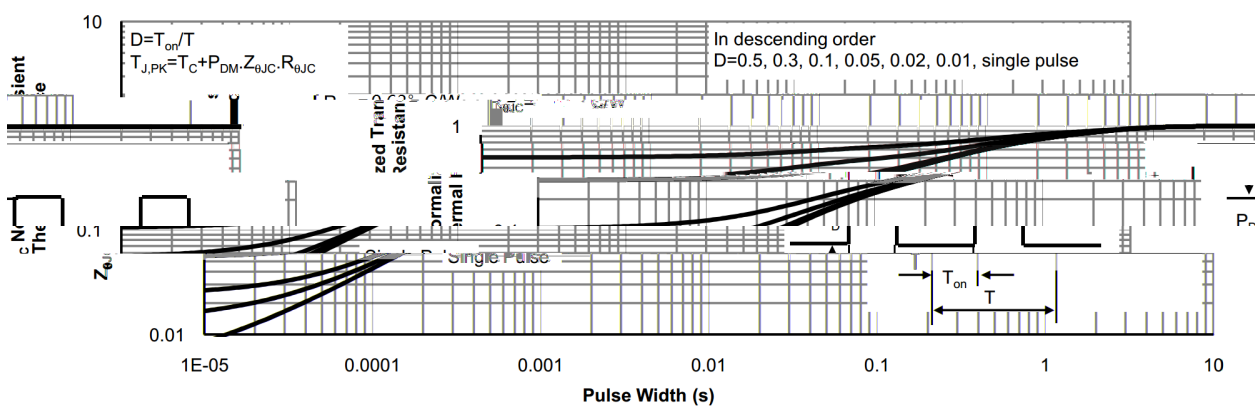
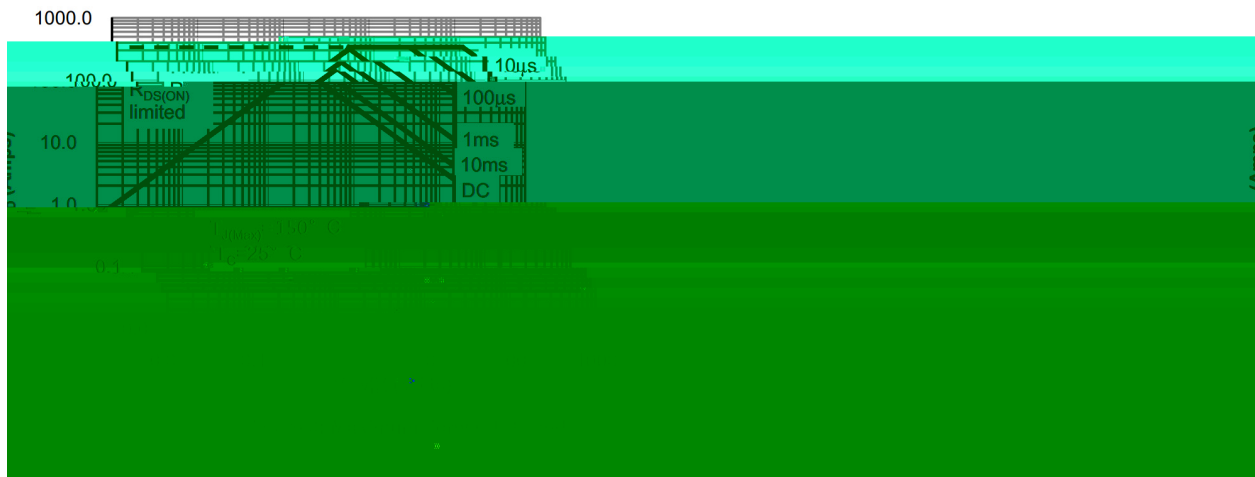
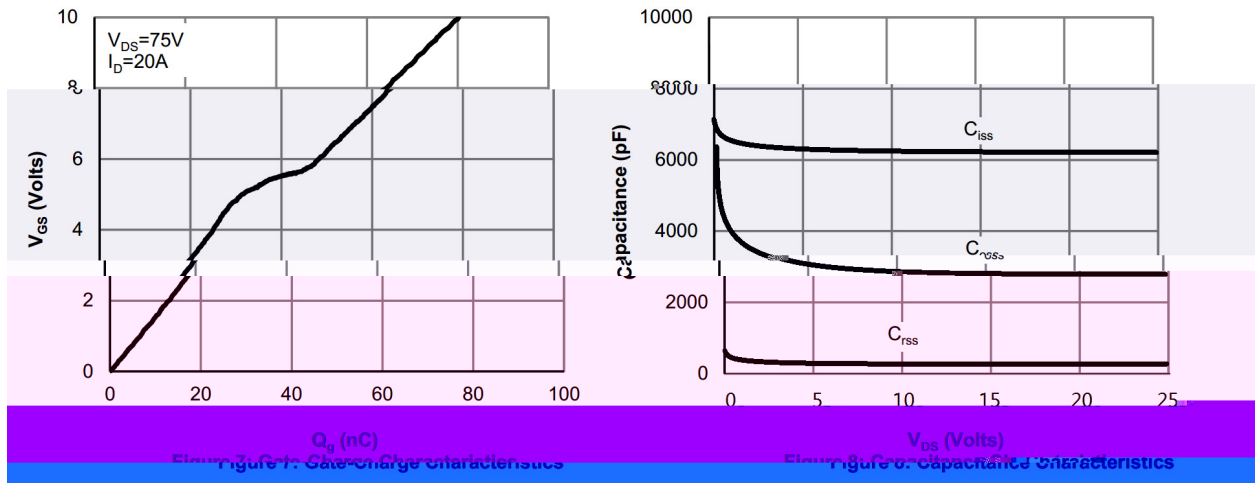
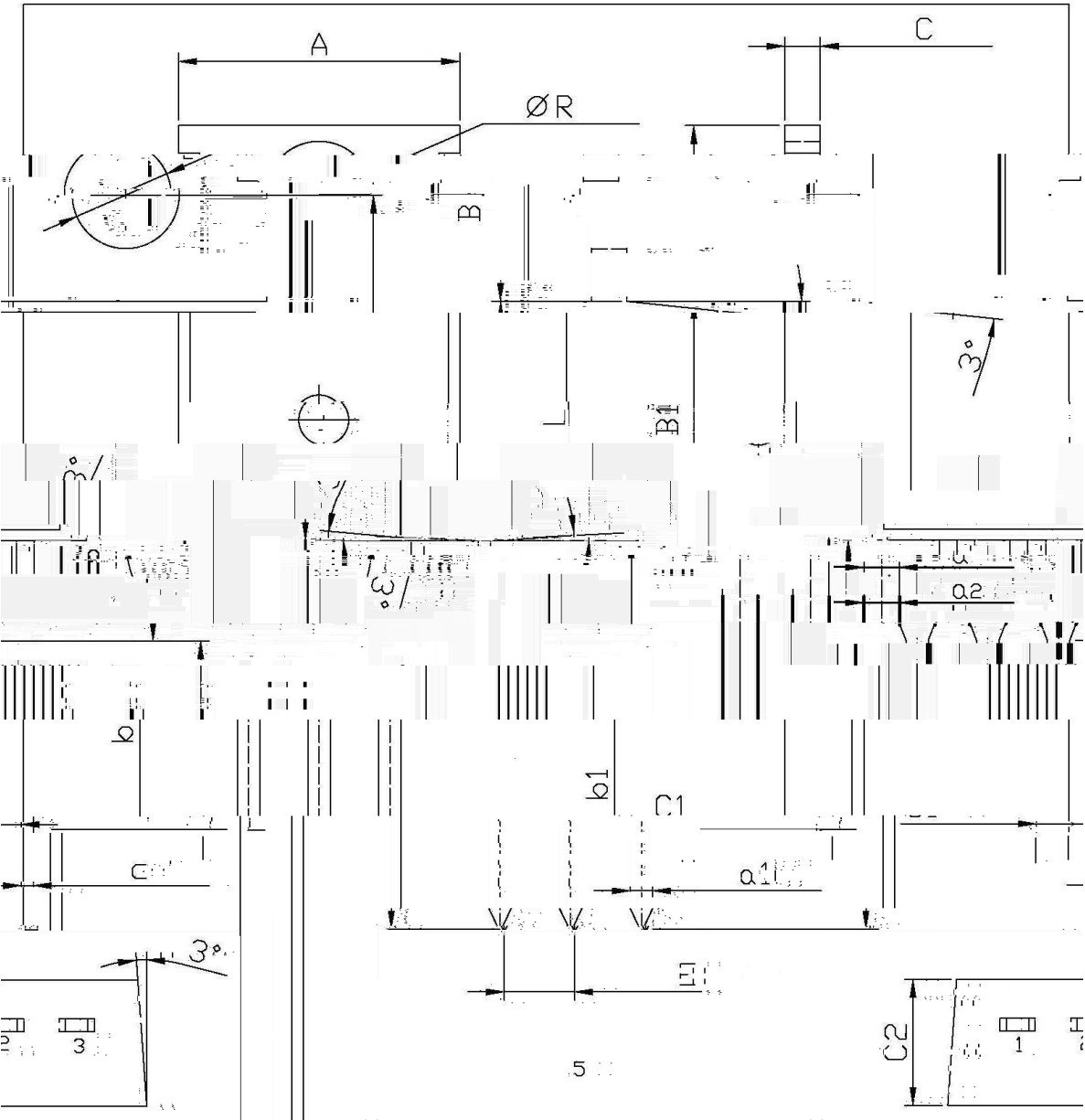


Figure 10: Normalized Maximum Transient Thermal Impedance

TO-220

单位: mm



Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
A	9.8	10.2	C	1.2	1.4
R	3.56	3.64	B	6.3	6.7
B1	15.7	16.1	B1	9.0	9.4
b	12.6	13.6	C1	2.2	2.6

, M y f / Marking Instructions

BR

060N15SH

^a ¢ y
(8 y , [W A
4 9 . y ° Z W A
y Ÿ D Z W A k š Ÿ D Z J

Note:

BR: Company Code

060N15SH: Product Type

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

GPD t... • Ž Ć (x /) / Temperature Profile for Dip Soldering(Pb-Free)

a Ć y

10• Ä ½ “ † 25 ½150 - k Ž • 60 ½90sec;

20• Q > “ † 255 r5 - k Ž • 4 Ò 5 r0.5sec;

30•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

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

2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Că p ~ »] / Resistance to Soldering Heat Test Conditions

“ † y 270 r5 -

Ž • y 10 r1 sec.

Temp.:270±5

Time:10±1 sec

G P á / Packaging SPEC.

• ^ x / BULK

Package Type 7>û ~ E	Units ;>û ĤH					Dimension ;>û p . (unit Ĥmm ³)		
	Units/Bag />Ĥ	Bags/Inner Box >Ĥ-	Units/Inner Box /-	Inner Boxes/Outer Box - /1Ć	Units/Outer Box /1Ć	Bag>Ĥ	Inner Box	Outer BoxĆ
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

ì ' x / TUBE

Package Type 7>û ~ E	Units ;>û ĤH					Dimension ;>û p . (unit Ĥmm ³)		
	Units/Tube /•1×	Tubes/Inner Box •1×/-	Units/Inner Box /-	Inner Boxes/Outer Box - /1Ć	Units/Outer Box /1Ć	Tube•1×	Inner Box	Outer BoxĆ
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

„ Đ y f / Notices