v ̈Ω Parameter		ϒ N Symbol	̈Ω Ö Rating	D Ч Unit
Drain-Source Voltage		V_{DSS}	80	V
Drain Current		I_D(Tc=25℃)	132	A
Pulsed Drain Current		I_{DM}	276	A
Gate-Source Voltage		V_{GS}	±20	V
Single Pulsed Avalanche Energy(L=0.5mH)		E_{AS}	940.8	mJ
Avalanche Current		I_{AS}	42	A
Total Power Dissipation		P_D(Tc=25℃)	173.6	W
Junction and Storage Temperature Range		T_J,T_{STG}	-55 to 150	
Thermal Resistance-Junction to Ambient	t≤10s	$R_{\theta JA}$	15	ł /W
	Steady-State		62	
Thermal Resistance-Junction to Case	Steady-State	$R_{\theta JC}$	0.72	

v ̈Ω Parameter	ϒ N Symbol	╜ :↑ ţ Test Conditions	ω ņ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ч Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=250μA	80	95		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=85V V_{GS}=0V			1	μA
Gate-Body Leakage Current Forward	I_{GSS}	V_{GS}=±20V V_{DS}=0V			±100	nA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=250μA	2	3	4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	V_{GS}=10V I_D=20A		4.3	5.5	mΩ
	$R_{DS(on)}$	V_{GS}=6V I_D=10A		5.8	9	
Forward On Voltage	V_{SD}	V_{GS}=0V I_S=1A			1.2	V
Gate resistance	R_g	f=1MHz		1.85		Ω
Input Capacitance	C_{iss}	V_{DS}=25V V_{GS}=0V f=1MHz		4130		pF
Output Capacitance	C_{oss}			1640		
Reverse Transfer Capacitance	C_{rss}			220		
Total Gate Charge	$Q_{g(10V)}$	V_{GS}=10V, V_{DS}=40V, I_D=20A		62		nC
Gate Source Charge	Q_{gs}			20		
Gate Drain Charge	Q_{gd}			23		

v ̈Ω Parameter	ϟ ᴺ Symbol	╨ ⁝ˈ ϯ Test Conditions	ѡ ṇ Ө Min	Ɛ ȝ Ө Typ	ѡ ᶻ Ө Max	ᴅ Ꮋ Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=40V R_L=2Ω R_{GEN}=3Ω		23		ns
Turn-On Rise Time	t_r			32		
Turn-Off Delay Time	$t_{d(off)}$			35		
Turn-Off Fall Time	t_f			27		

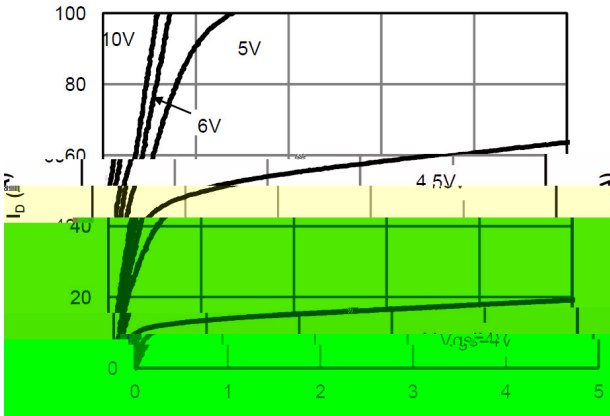


Fig 1: On-Region Characteristics

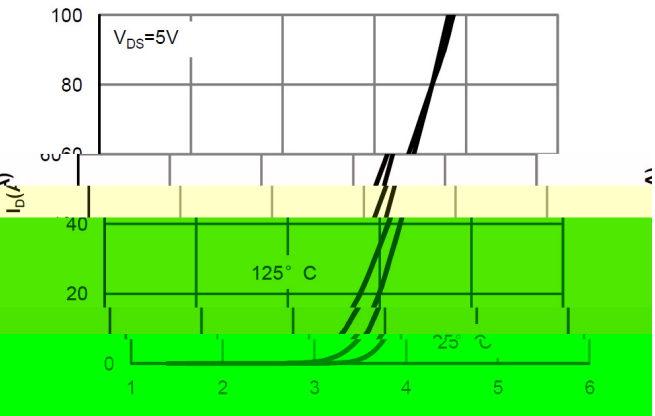
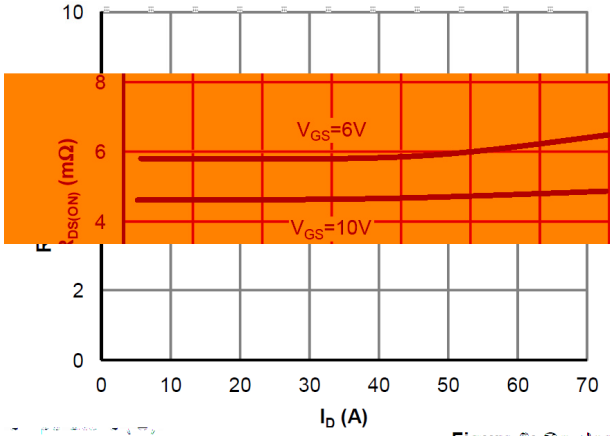


Figure 2: Transfer Characteristics



stance vs. Junction Temperature

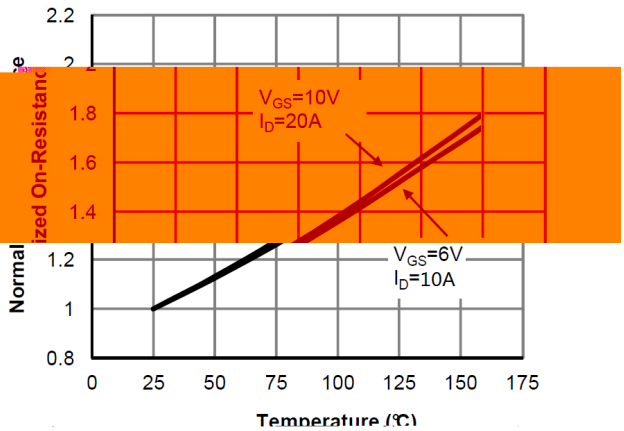


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

Figure 4: On-Resi

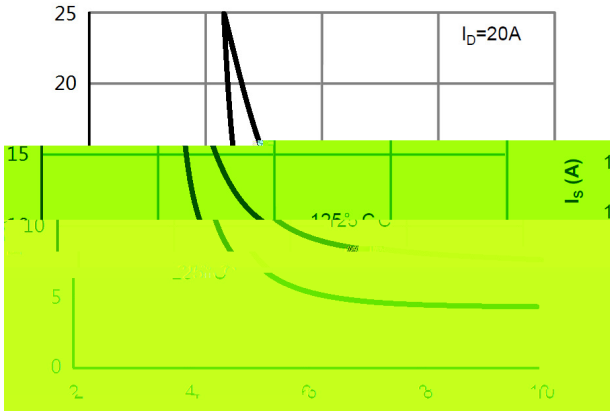


Figure 5: On-Resistance vs. Gate-Source Voltage

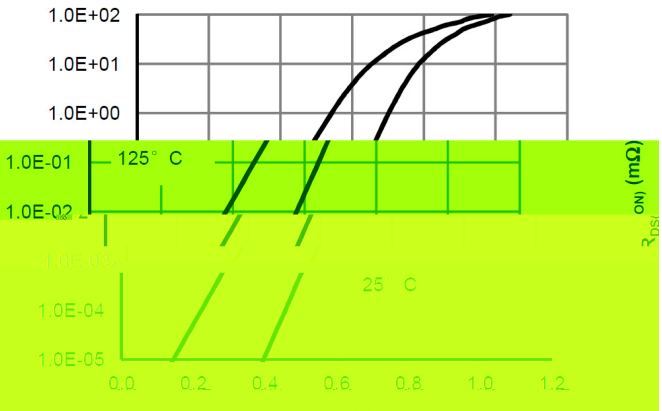


Figure 6: Body-Diode Characteristics

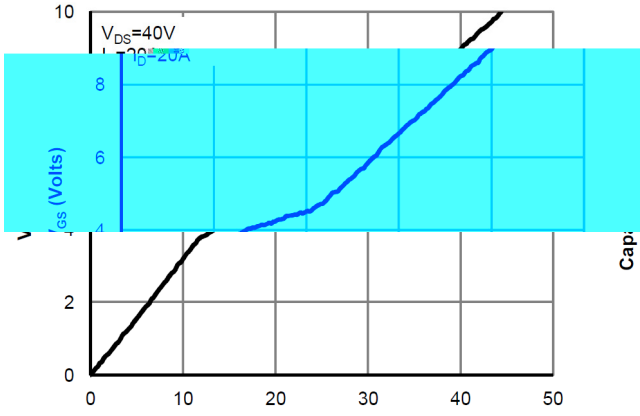


Figure 7: Gate-Charge Characteristics

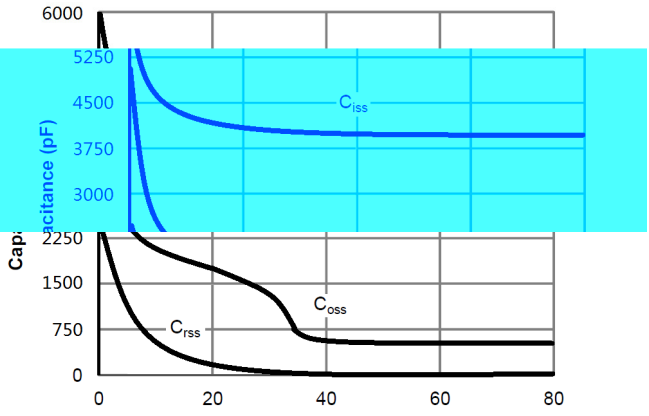


Figure 8: Capacitance Characteristics

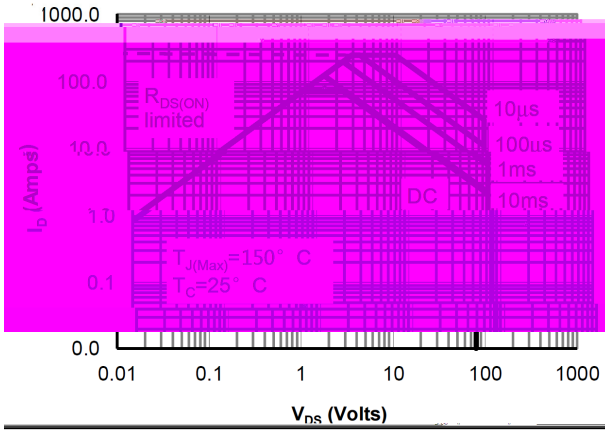


Figure 9: Maximum Forward Biased Safe Operating Area

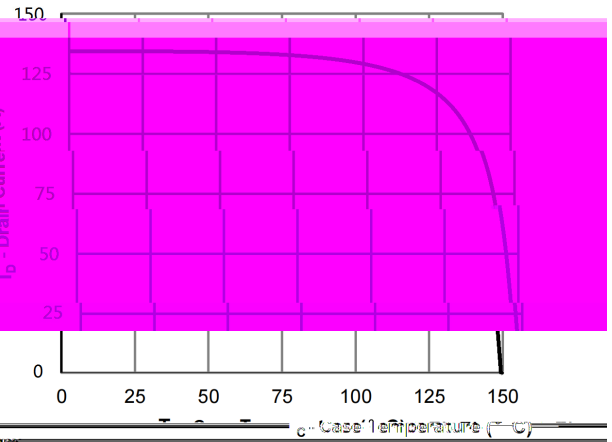


Figure 10: Maximum Continuous Drain Current vs Case Temperature

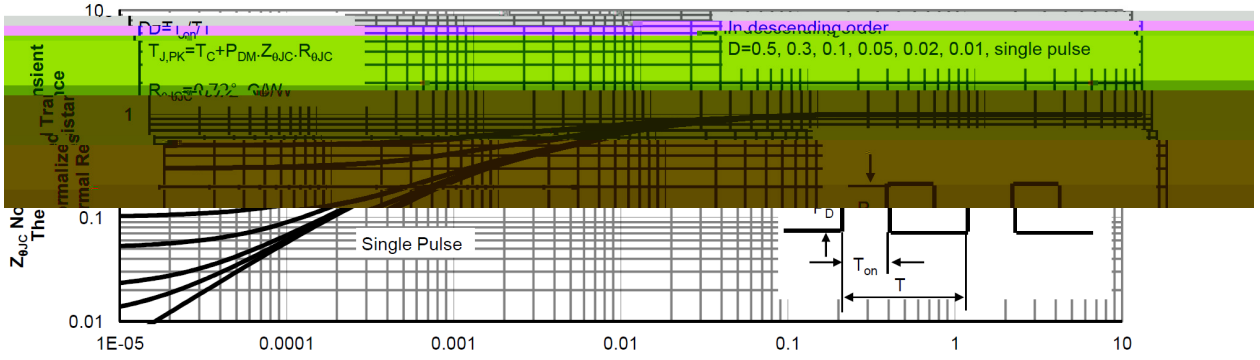
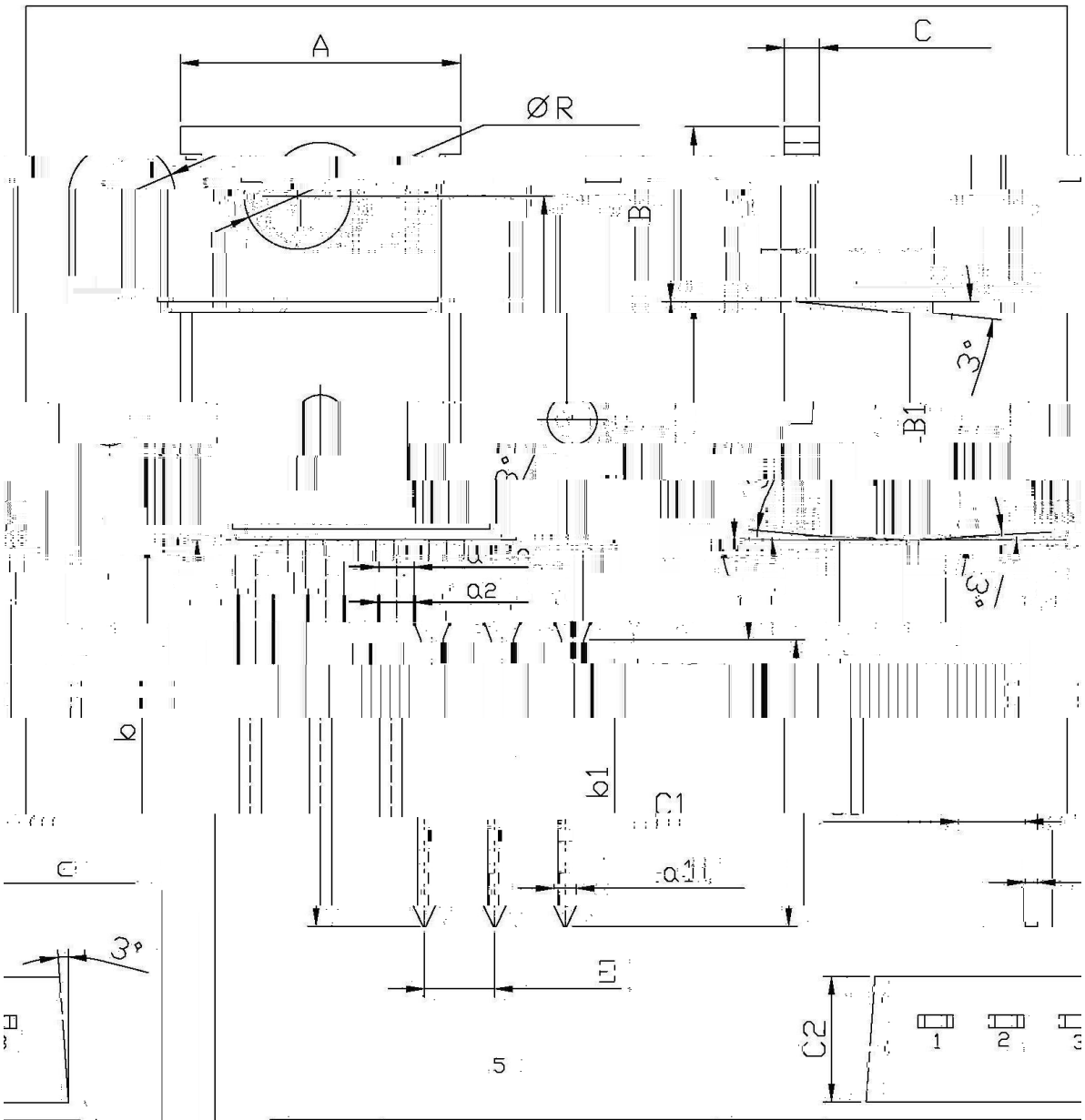


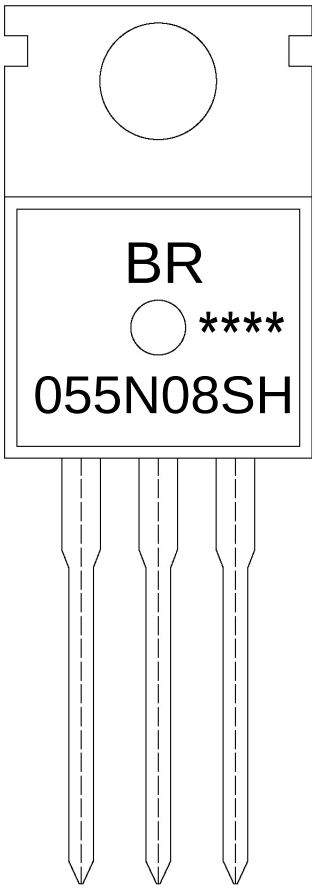
Figure 11: Normalized Maximum Transient Thermal Impedance

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
b	12.6	13.6	B1	9.0	9.4
			C1	2.2	2.6



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388Q3 ; VK χ ѭ ʒ ᴺ Ґђ

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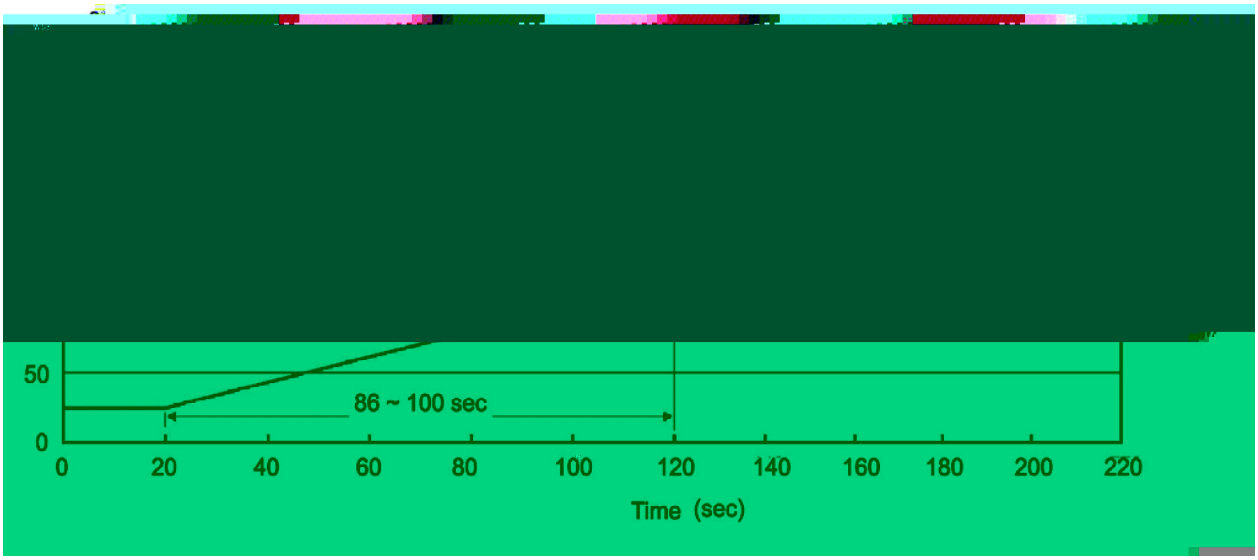
Note:

BR: Company Code

055N08SH: Product Type

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



ب ˝ χ

1 Ĺ ♬ □ ů 25 Ḱ 150 ł ı `H ڑ 60 Ḱ 90sec;

2 Š Ө □ ů 255 ° 5 ł ı `H ڑ `Y ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ｲ ˛ ɔ ෯ ů ㎞ 2 Ḱ 10 ł /sec.

Note:

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

2.Peak Temp.:255 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

□ ů χ 270 ° 5 ł `H ڑ χ 10 ° 1 sec. Temp.:270±5 Time:10±1 sec

`Ω ţ γ Ł / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit：mm³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

˛ ｱ γ Ł / TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit：mm³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180