

Rev.B Dec.-2023

TO-220 封装 N 沟道 MOSFET

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

$V_{DS}=100V$ $I_D=120A$

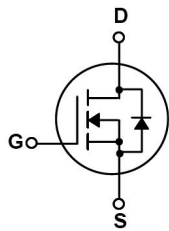
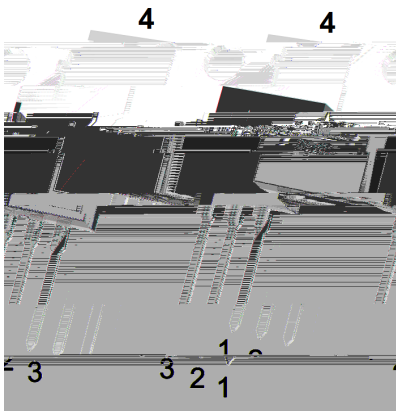
$R_{DS(on)}@10V \leq 5.5m\Omega$ (Type.4.7m Ω)

$R_{DS(on)}@4.5V \leq 7.0m\Omega$ (Type.6.0m Ω)

高频 HF Product.

适用于高频开关和同步整流, BMS, 电机驱动

High frequency switching and synchronous rectification, BMS, Motor.



PIN1 栅极 G

PIN 2 漏极 D

PIN 3 源极 S

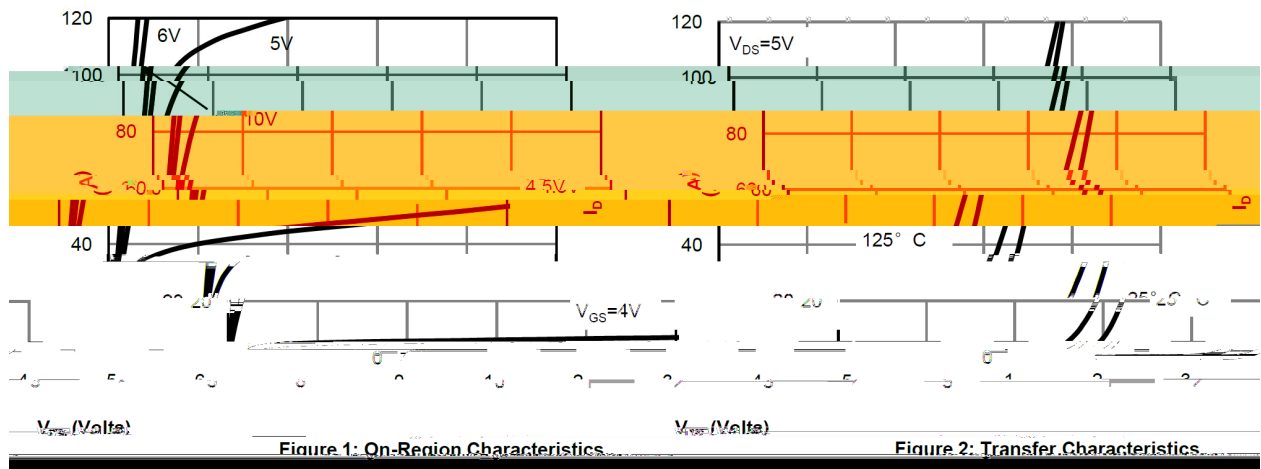
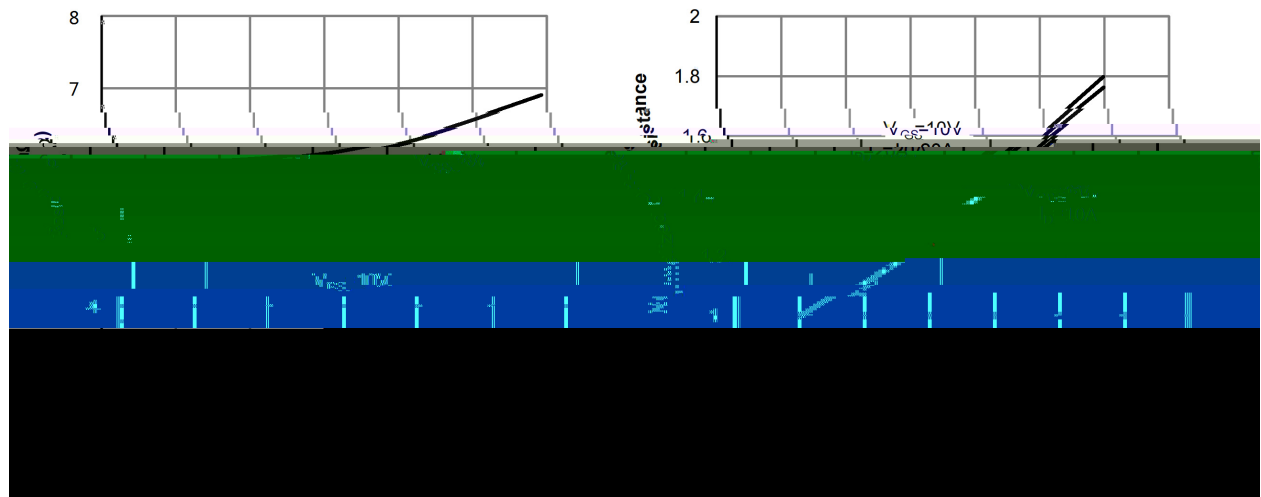
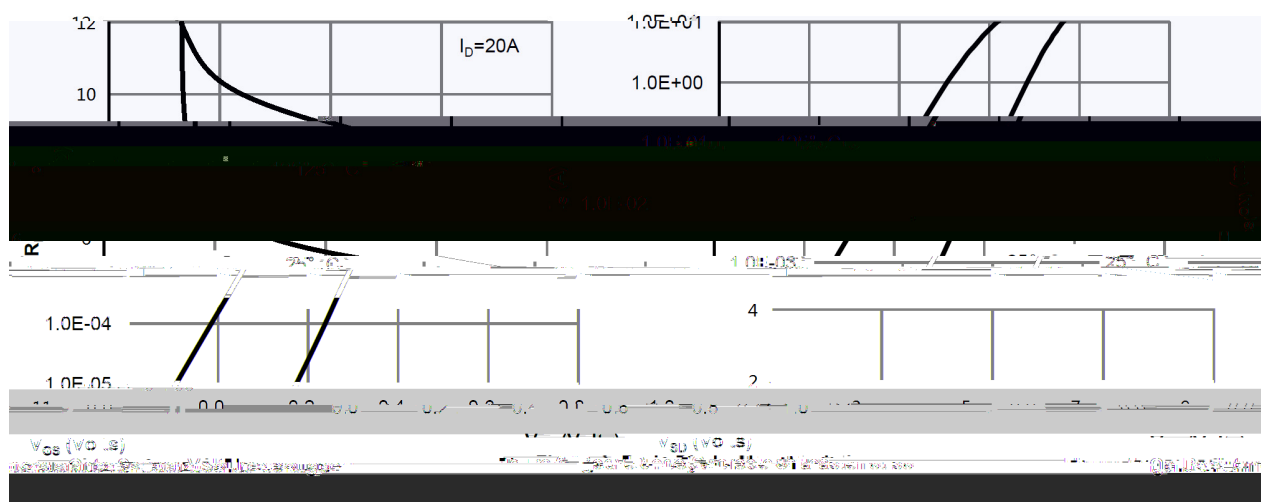
请参见

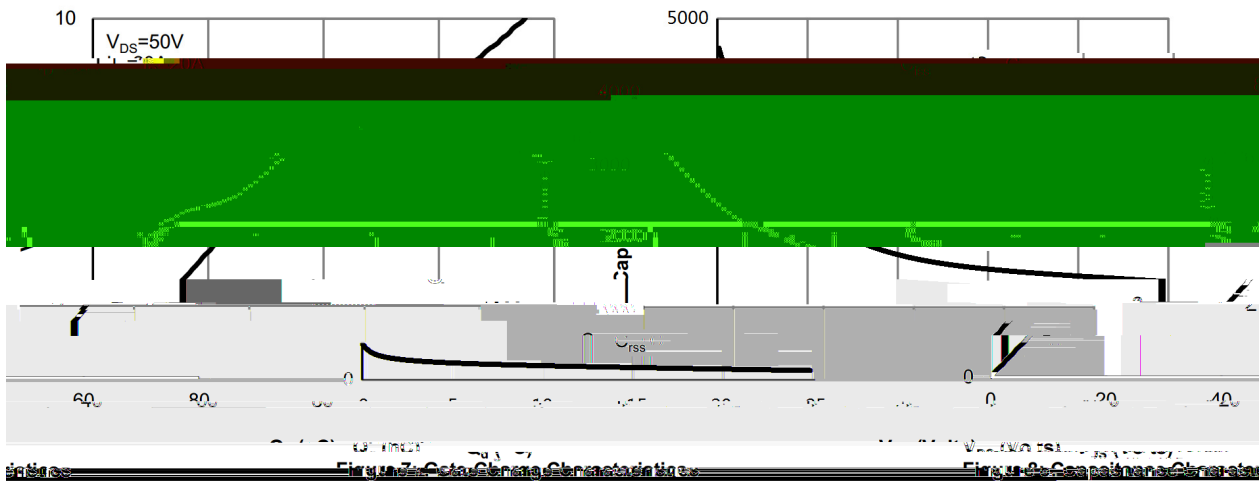
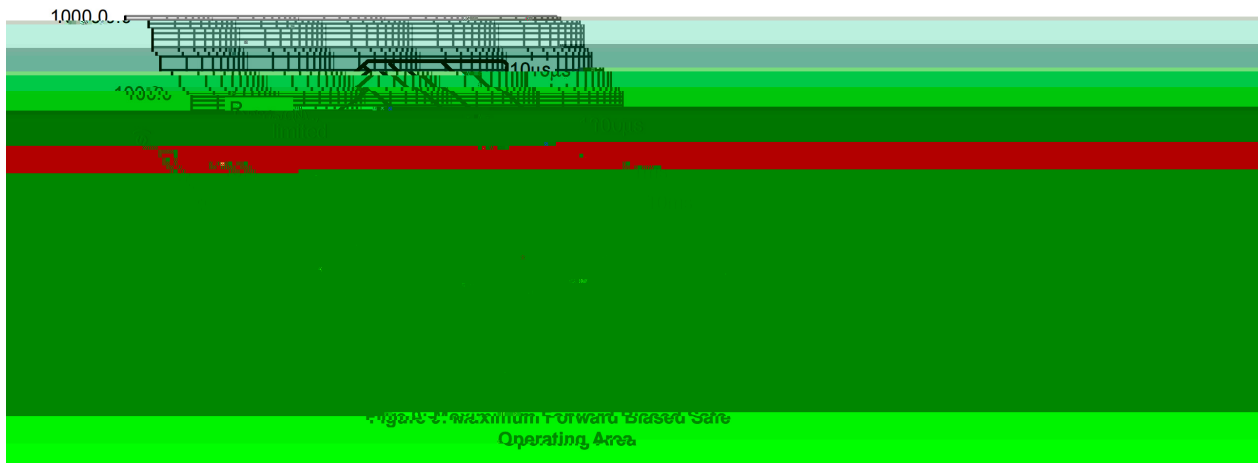
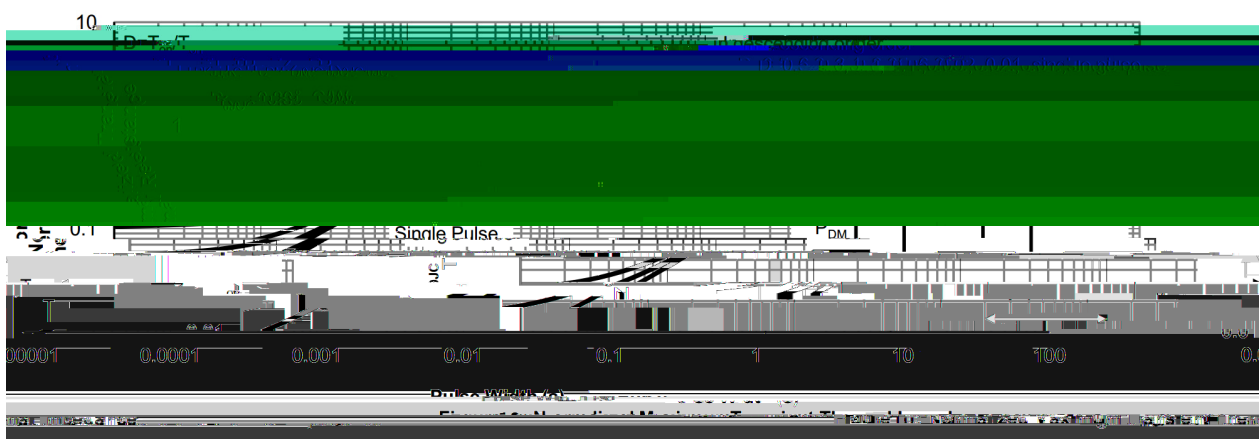
See Marking Instructions.

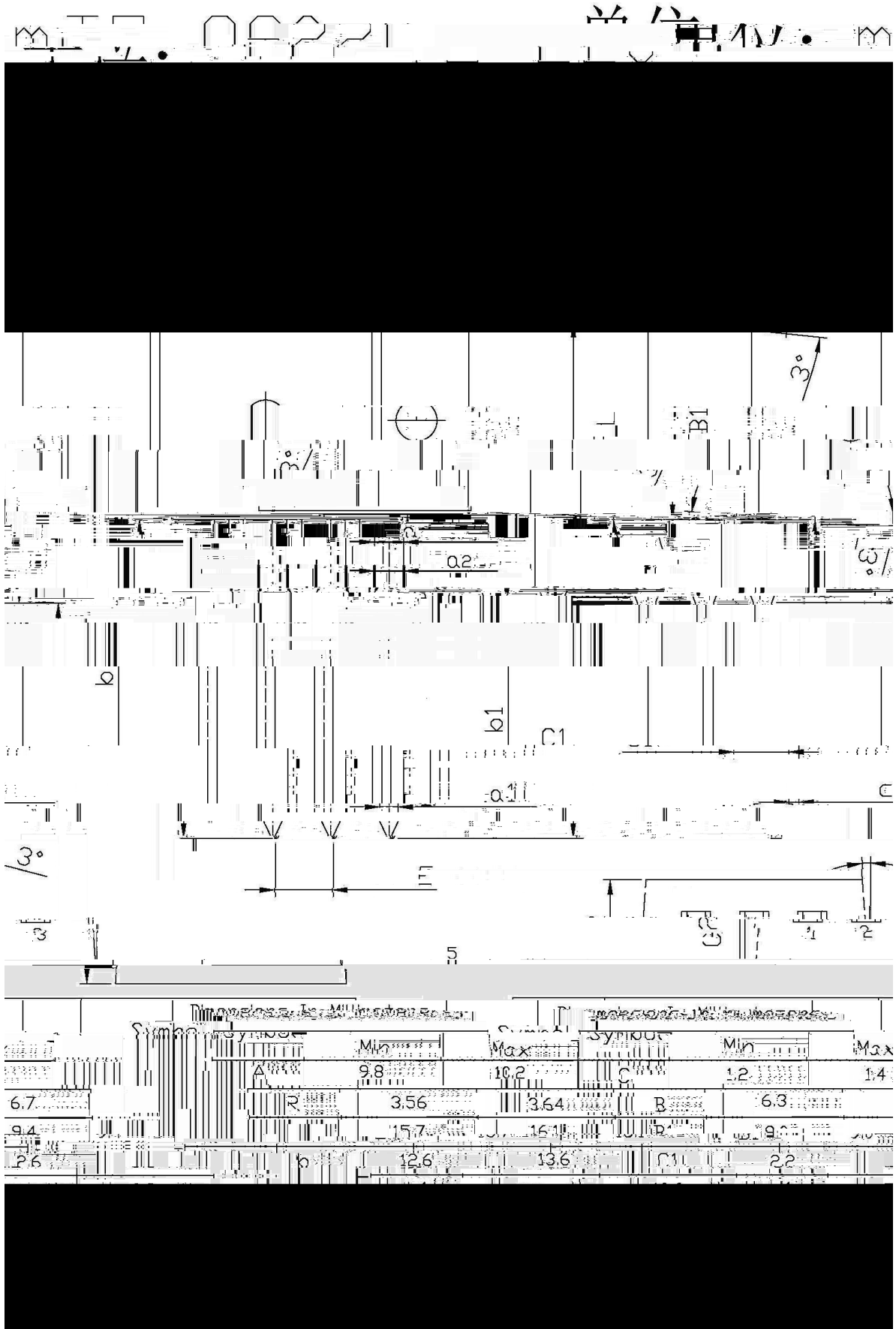
Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DS}	100	V
Drain Current		$I_D(T_c=25^\circ\text{C})$	120	A
Pulsed Drain Current		I_{DM}	255	A
Gate-Source Voltage		V_{GS}	± 20	V
Single Pulsed Avalanche Energy(L=0.5mH)		E_{AS}	883.6	mJ
Avalanche Current		I_{AS}	47	A
Total Power Dissipation		$P_D(T_c=25^\circ\text{C})$	140	W
Junction and Storage Temperature Range		T_J, T_{STG}	-55 to 150	
Thermal Resistance-Junction to Ambient	$t \leq 10s$	$R_{\theta JA}$	20	$^\circ\text{C/W}$
	Steady-State		75	
Thermal Resistance-Junction to Case		$R_{\theta JC}$		

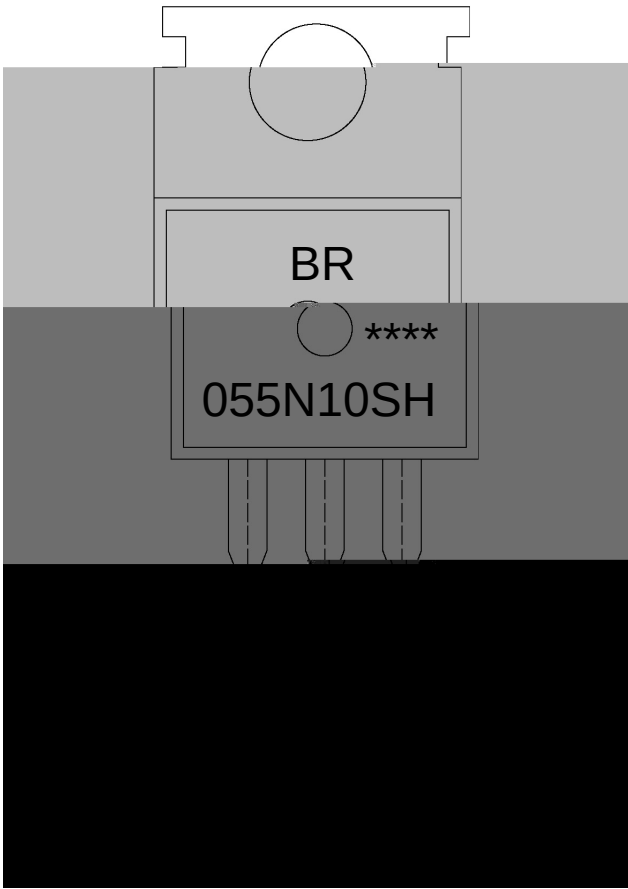
Symbol

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5\Omega$ $R_{GEN}=3\Omega$		28.3		ns
Turn-On Rise Time	t_r			24		
Turn-Off Delay Time	t_t					









公司代码
EU 公司代码
388Q43VK 公司代码
---- 公司代码 1 2 3 4 5 6 7 8 9 10
Note:
BR: Company Code
055N10SH: Product Type Code
****: Lot No. Code, code change with Lot No

备注

1. 预热: 25~150℃, 时间: 60~90sec;
2. 峰值温度: 255±5℃, 持续时间: 5±0.5sec;
3. 冷却速度: 2~10℃/sec.

Note:

- 1.Preheating:25~150℃, Time:60~90sec.
- 2.Peak Temp.:255±5℃, Duration:5±0.5sec.
3. Cooling Speed: 2~10℃/sec.

预热: 270±5℃, 时间: 10±1 sec.

Temp.:270±5

Time:10±1 sec

包装形式 / BULK

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

包装形式 / TUBE

Package Type