

Rev.A Dec.-2023

SGIQ606D0;0 Q P RV

N-Channel Enhancement Mode Field Effect Transistor in a PDFN303A-8L Plastic Package.

$V_{DS} (V) = 30V$

$I_D = 20 A (V_{GS} = \pm 20V)$

$R_{DS(ON)}@10V \leq 13mR(Typ.11mR)$

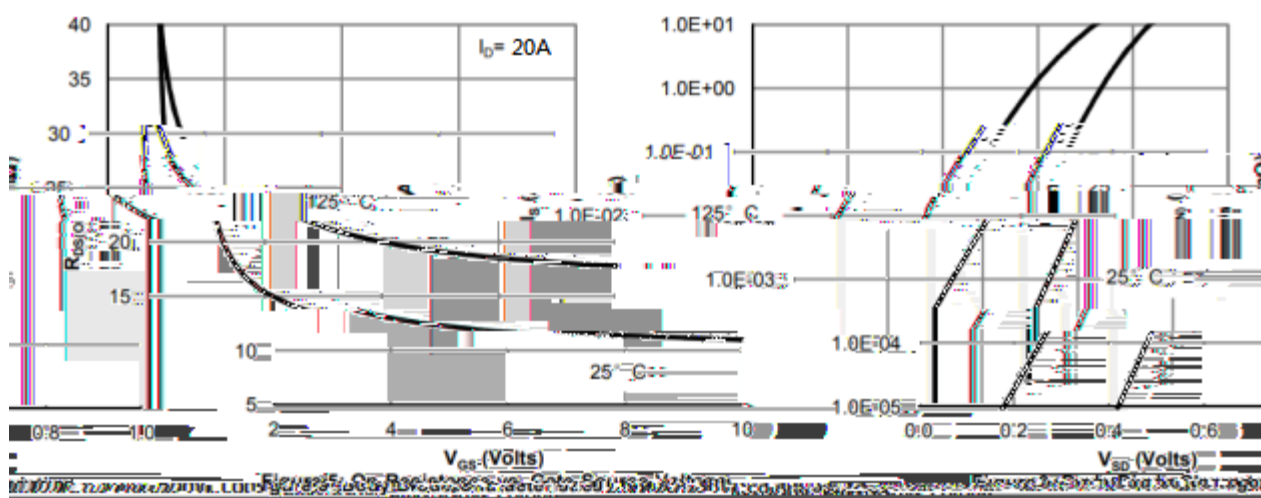
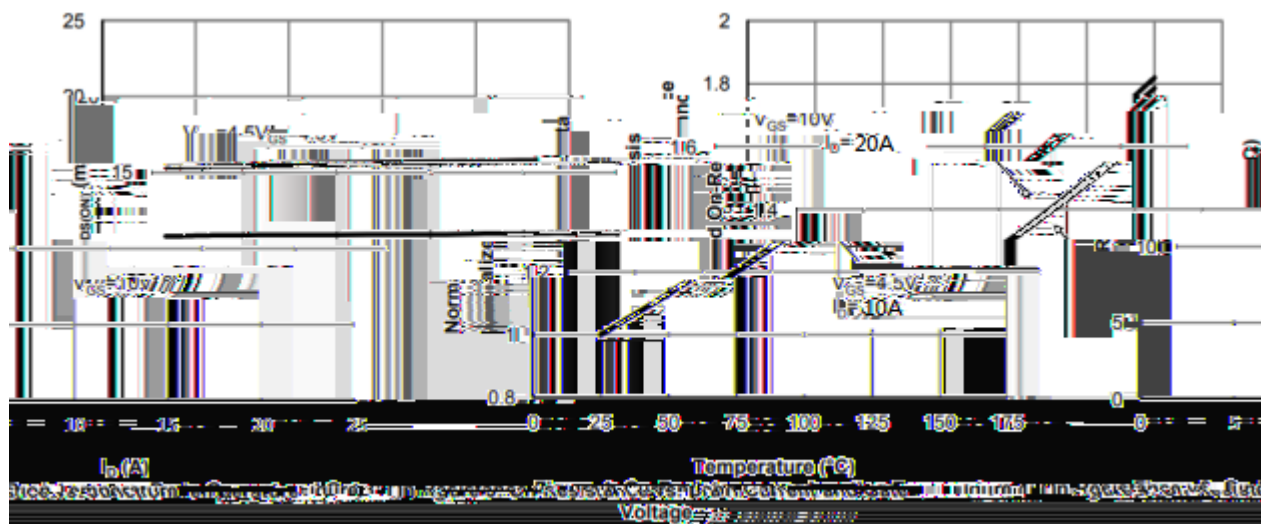
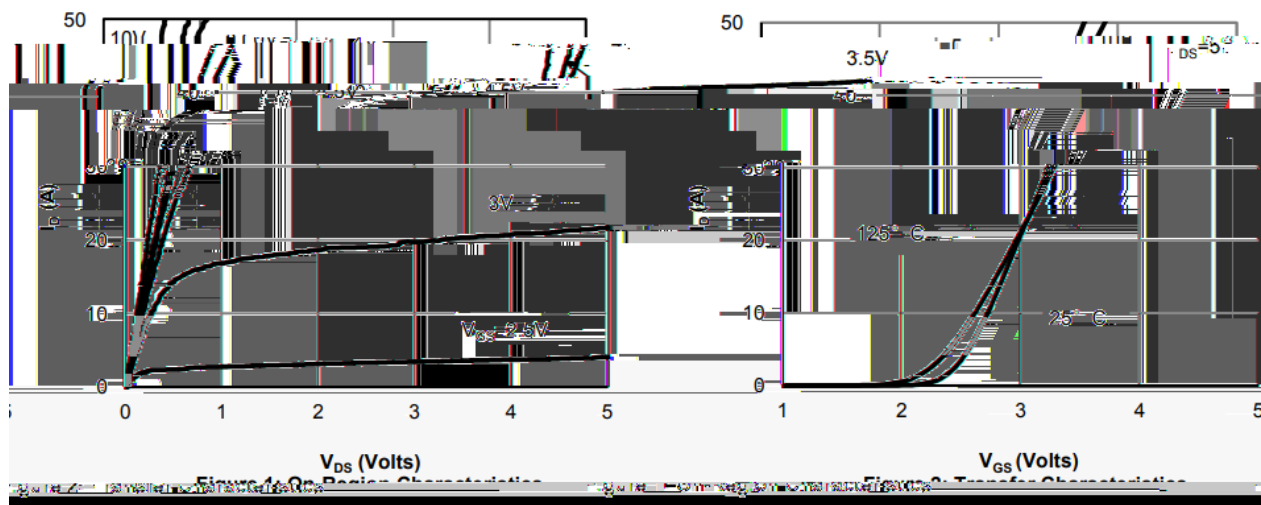
DHF0T434

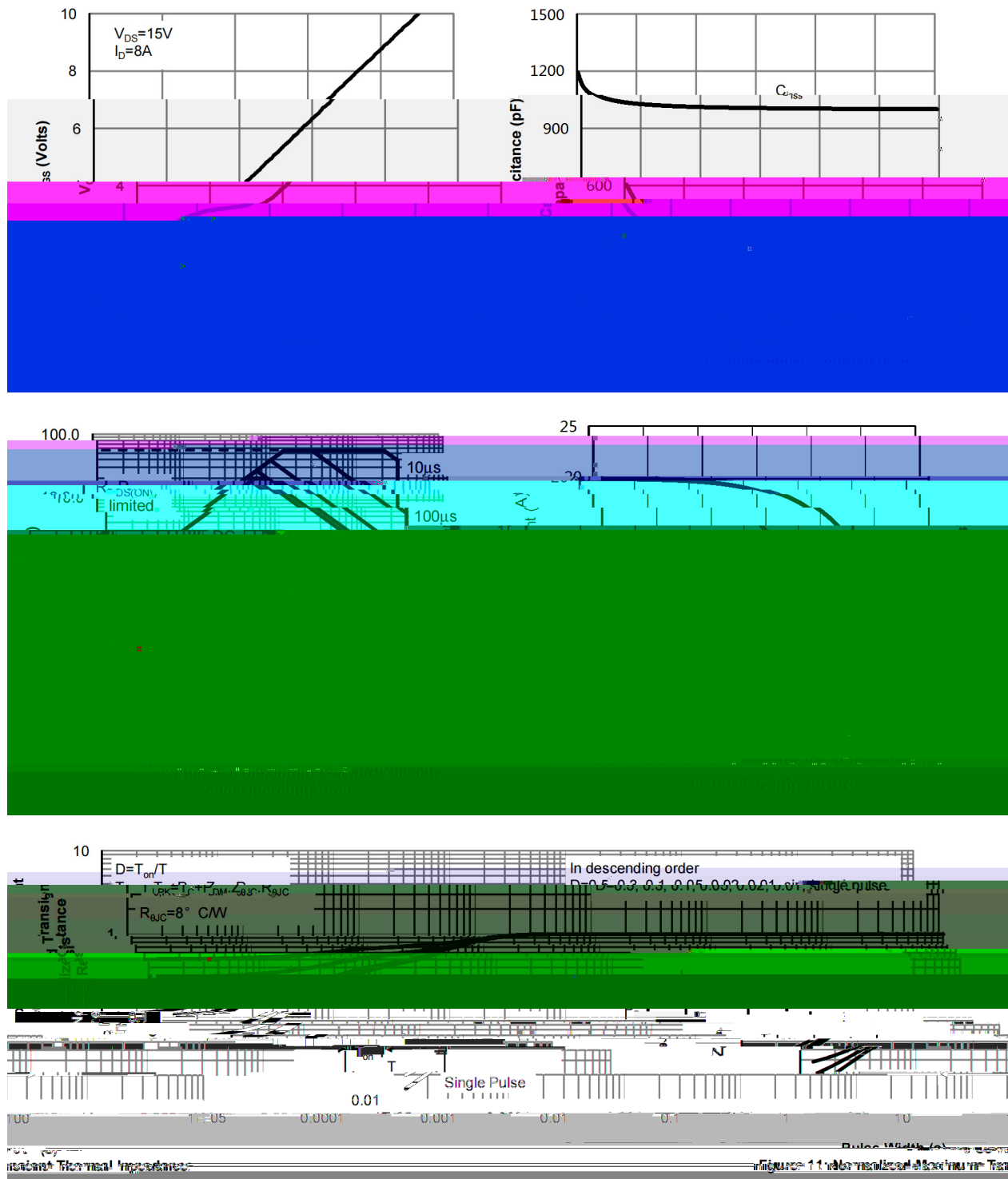
HF Product.

Qualified to AEC-Q101 Standards for High Reliability,

GF2GF ±

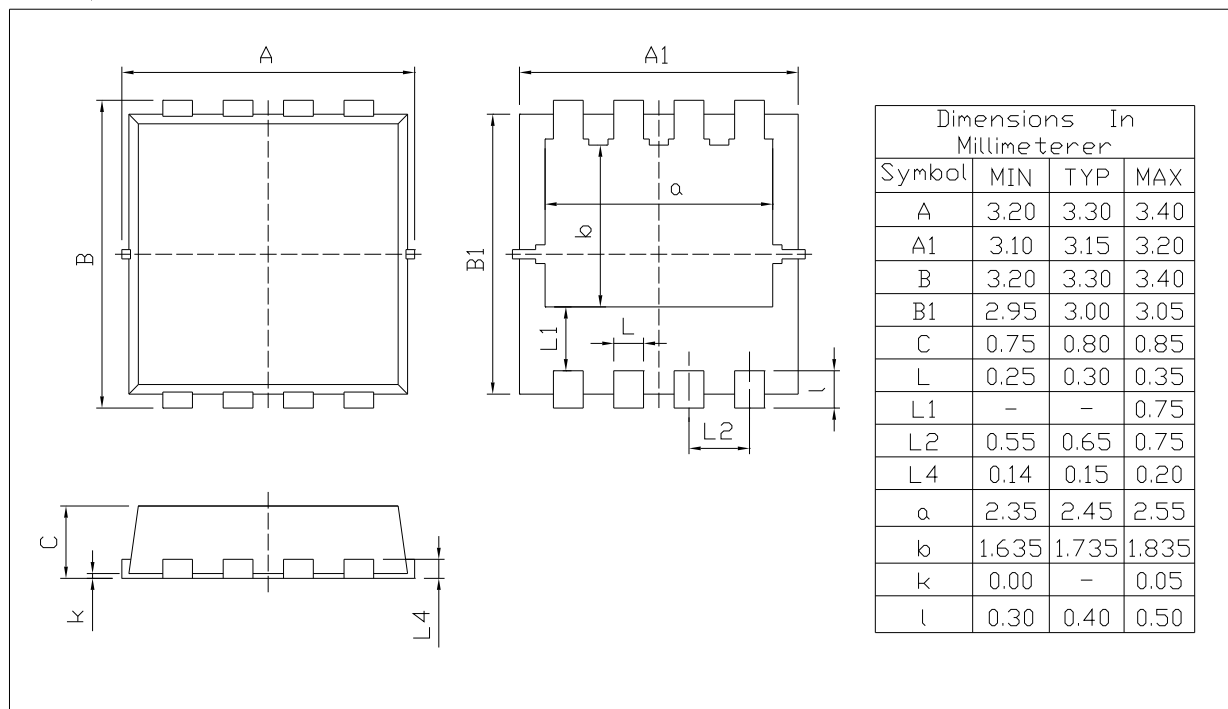
Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DS}	30	V
Drain Current		$I_D(T_C=25^\circ\text{C})$	20	A
Drain Current - Pulsed		I_{DM}	55	A
Gate-Source Voltage		V_{GS}	± 20	V
Single Pulsed Avalanche Energy		E_{AS}	199	mJ
Avalanche Current		I_{AS}	12.9	A
Power Dissipation		$P_D(T_C=25^\circ\text{C})$	15.5	W
Operating and Storage Temperature Range		T_J, T_{stg}	-55 to 150	
Junction-to-Ambient	$t \leq 10$	$R_{\theta JA}$	30	/W
Junction-to-Ambient	Steady-State		60	
Junction-to-Case	Steady-State	$R_{\theta JC}$	8	



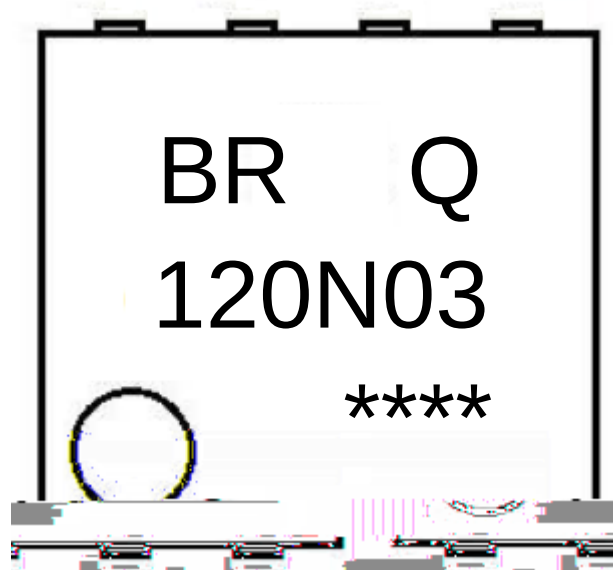


PDFN3X3A-8L

Unit:mm



Rev.00 202011



BR

Q

120N03

Note:

BR: Company Code

Q: Automobile halogen-free product Code

120N03: Product Type Code

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

Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1

150 200%

60 120sec;

1.Preheating:150~200%, Time:60~120sec.
- 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.

605 ± 5%