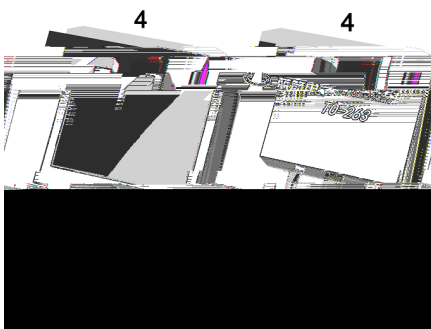
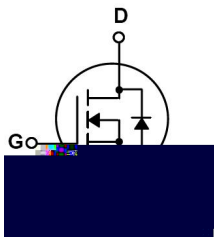


Rev.A Apr.-2024

TO-263 N
N-CHANNEL MOSFET in a TO-263 Plastic Package.

$V_{DS}=60V$ $I_D=182A$
 $R_{DS(on)}@10V \leq 3.0m\Omega$ (Type.2.8m Ω)
 $R_{DS(on)}@6V \leq 5.0m\Omega$ (Type.3.5m Ω)
 HF Product.

BMS
 High frequency switching and synchronous rectification,BMS,Motor.



PIN1 G PIN 2 4 D PIN 3 S

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}		V
Drain Current		182	A
Pulsed Drain Current	I_{DM}	530	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy(L=0.5mH)	E_{AS}	946	

946



Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=30V$ $R_L=1.5\Omega$ $R_{GEN}=3\Omega$		15.7		ns
Turn-On Rise Time	t_r			16.4		
Turn-Off Delay Time	$t_{d(off)}$			35		
Turn-Off Fall Time	t_f			15		

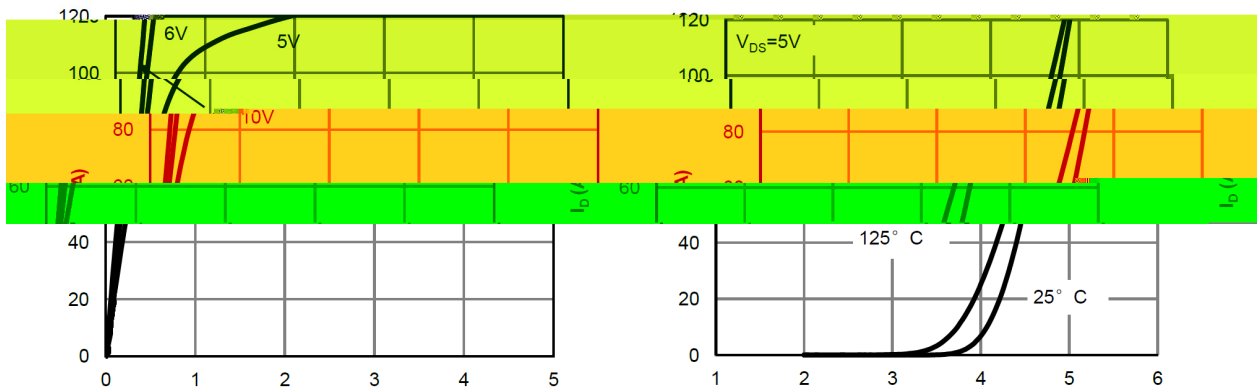


Figure 1: On-Region Characteristics

Figure 2: Transfer Characteristics

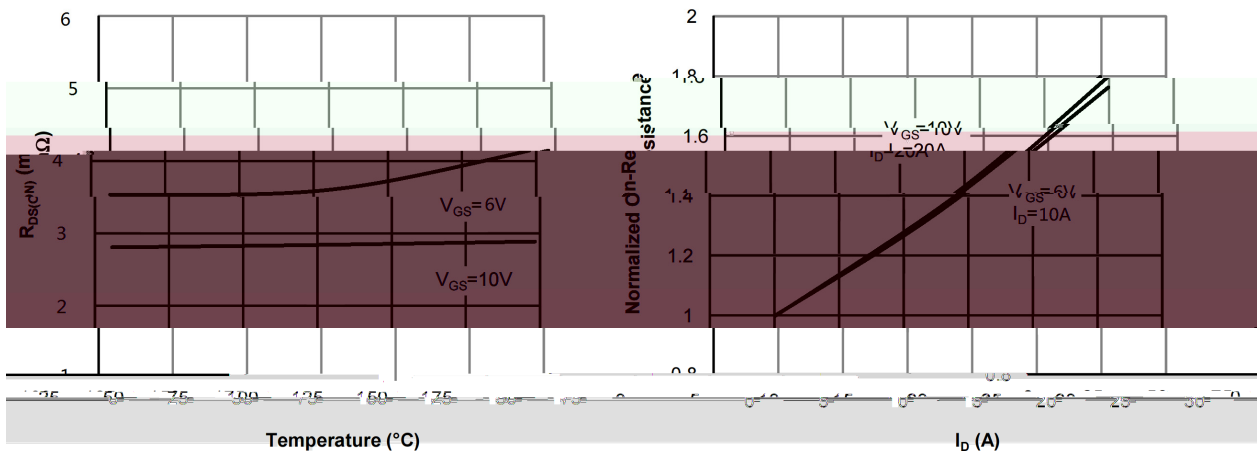


Figure 4: On-Resistance vs. Junction Temperature

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

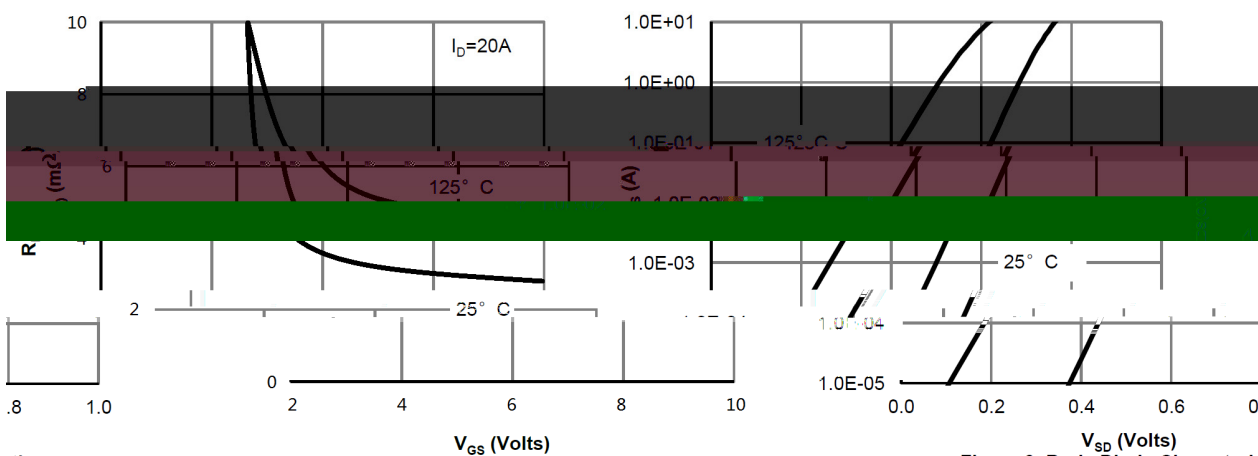


Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body-Diode Characteristics

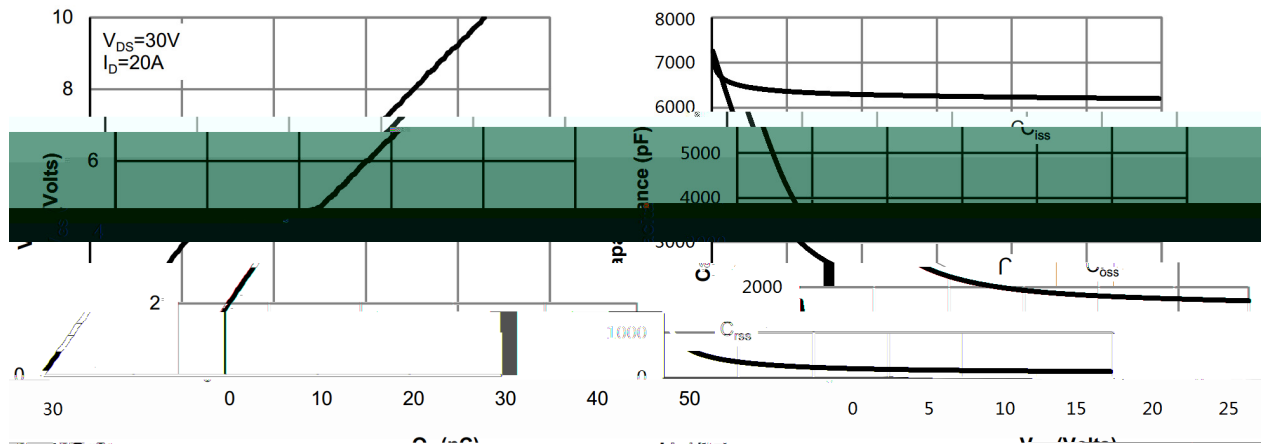


Figure 8: Capacitance Characteristics

Figure 7: Gate-Charge Characteristics

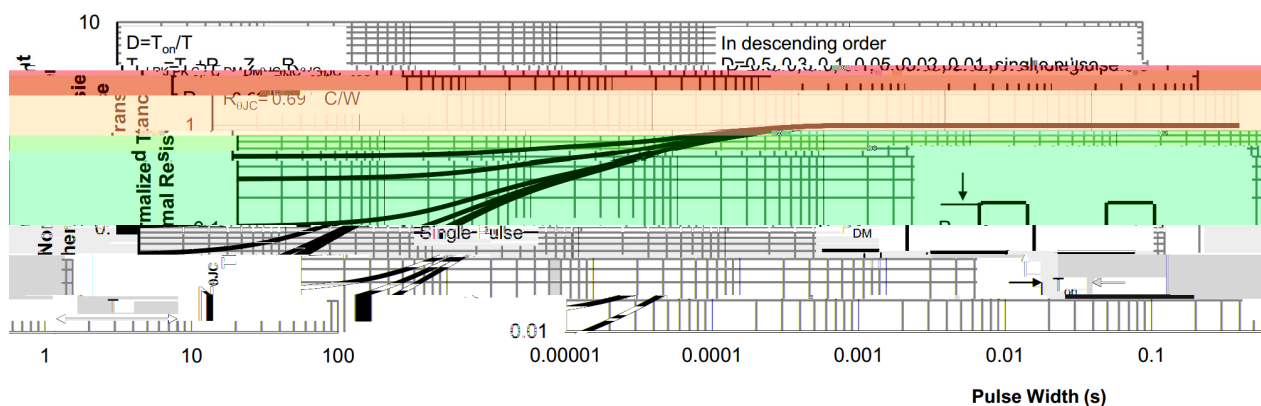
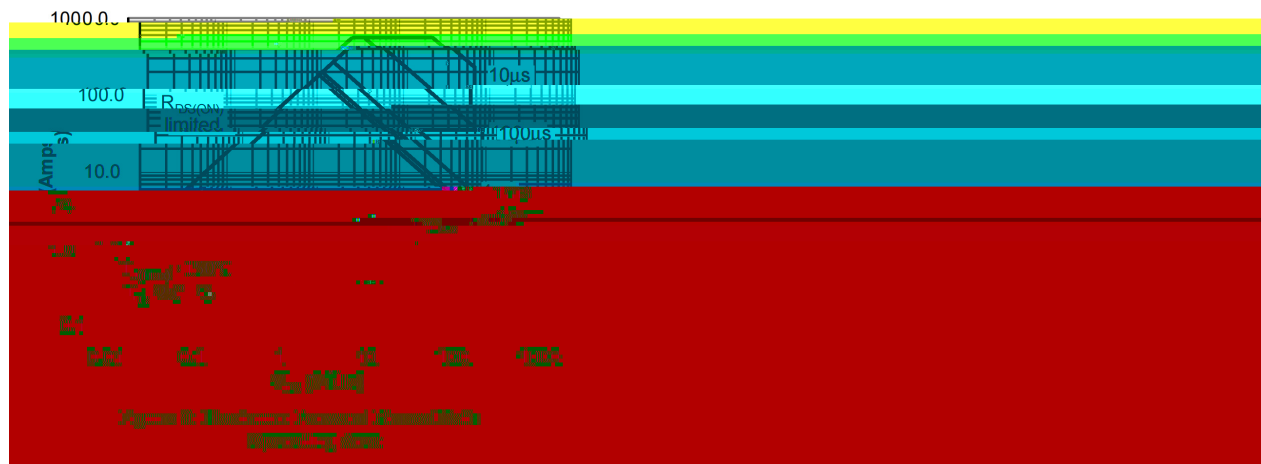
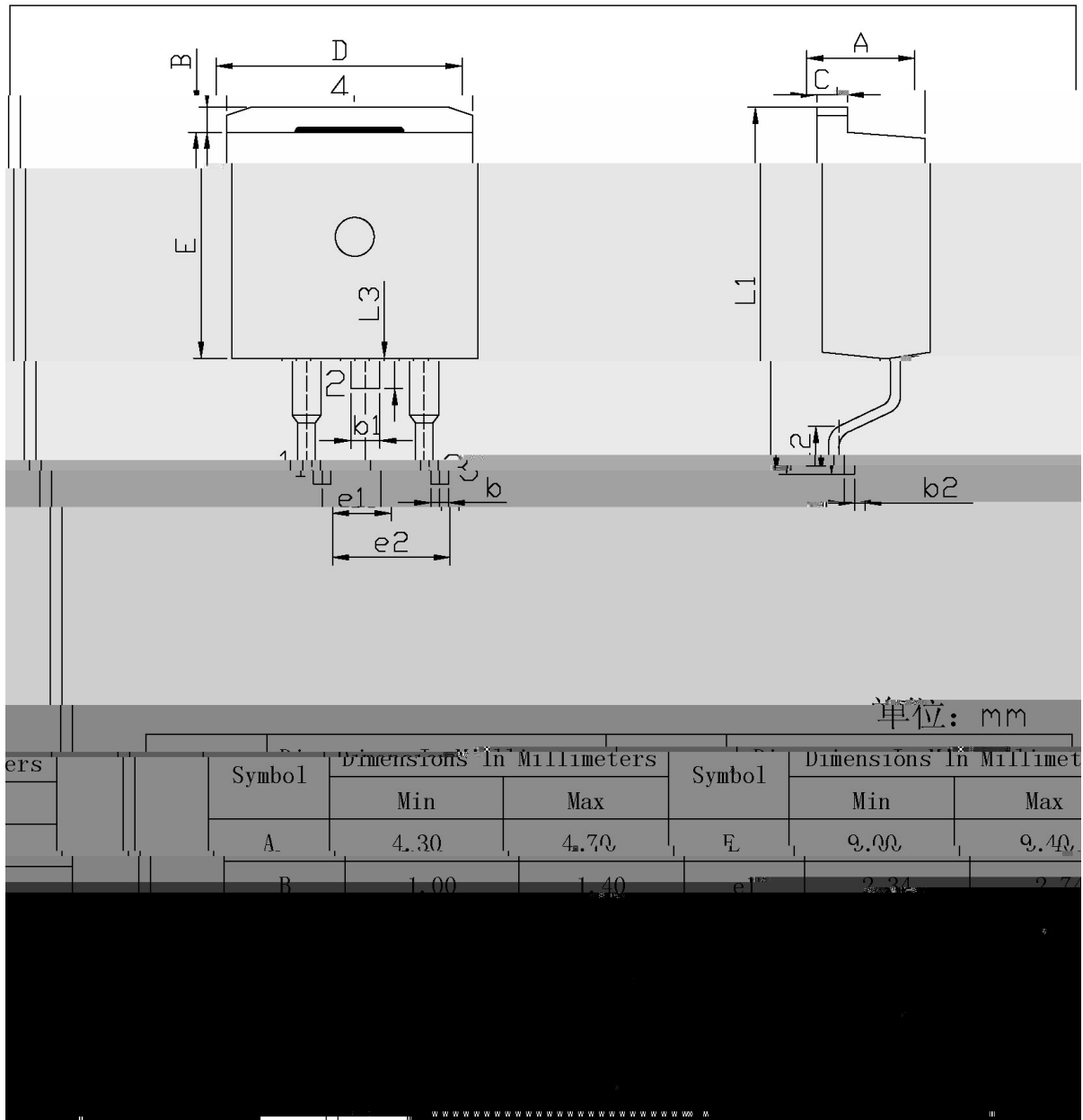
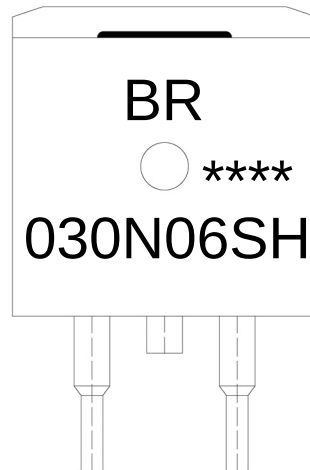


Figure 10: Normalized Maximum Transient Thermal Impedance



TT-262



BR

030N06SH

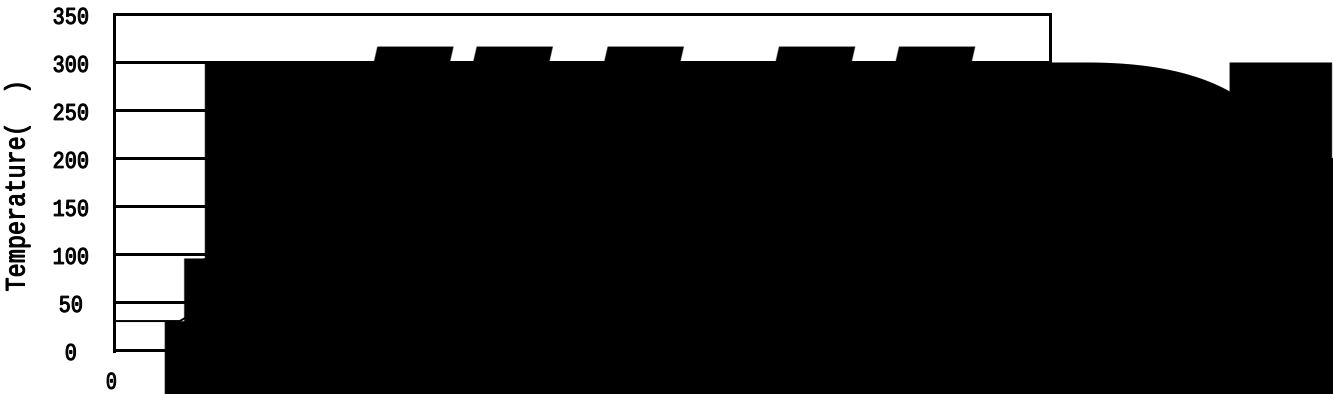
Note:

BR: Company Code

030N06SH: Product Type Code

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

Temperature Profile for IR Reflow Soldering(Pb-Free)



- 1150
- 2245
- 3

260±5

/ RE

Package Type	
TO-263	800

/ TU

Package Type								
TO-263	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180