

Rev.A Sep.-2022

N TO-263

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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	60	V
Drain Current	$I_D(T_c=25\text{ }^{\circ}\text{C})$	50	A
Drain Current - Pulsed	I_{DM}	200	A
Gate-Source Voltage	V_{GS}	± 20	V
Avalanche Current	I_{AS}	20	A
Single Pulsed Avalanche Energy	E_{AS}	170	mJ
Power Dissipation	$P_D(T_c=25\text{ }^{\circ}\text{C})$	75	W

Storage Temperature Range

T_{stg}

-55 150

urrent

$T_c=25$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=30V$ $R_L=1.5\Omega$ $R_{GEN}=3\Omega$		8		ns
Turn-On Rise Time	t_r			5		
Turn-Off Delay Time	$t_{d(off)}$			30		
Turn-Off Fall Time	t_f			5.5		

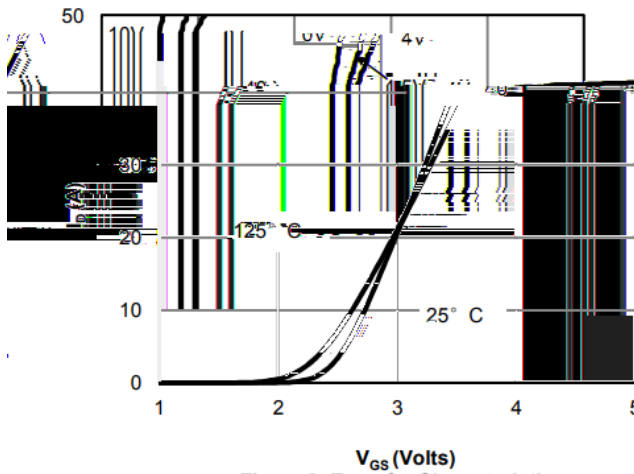


Figure 2: Transfer Characteristics

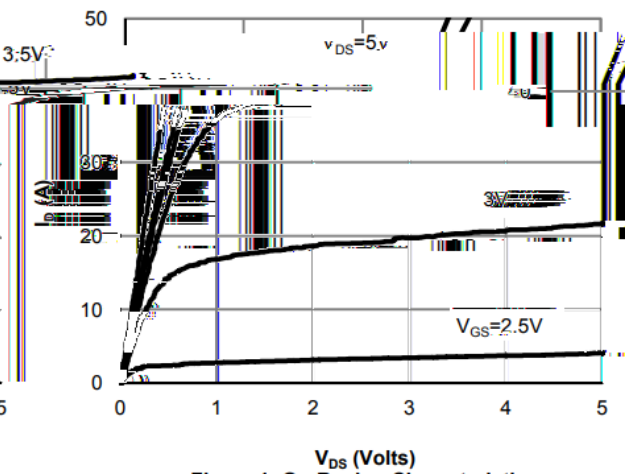


Figure 1: On-Region Characteristics

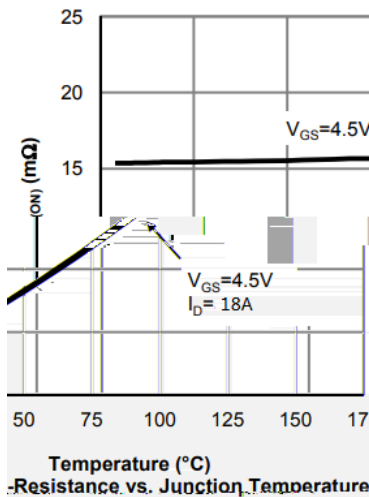


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

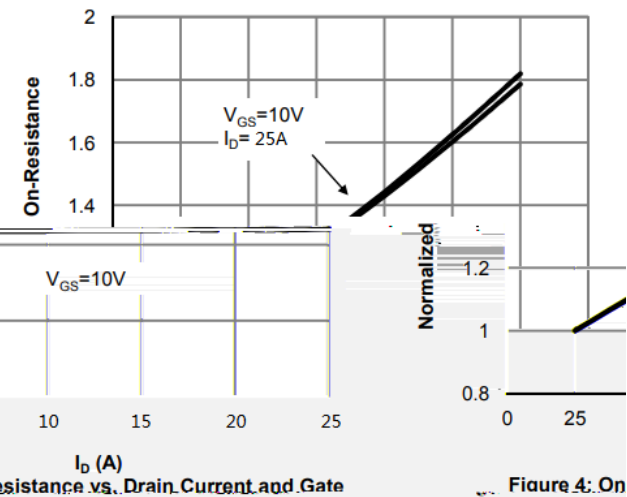


Figure 4: On-Resistance vs. Drain Current and Gate Voltage

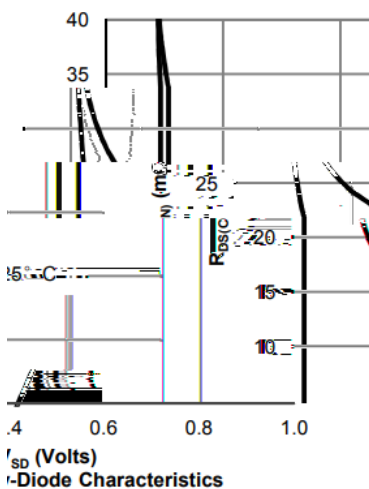


Figure 5: On-Resistance vs. Gate-Source Voltage

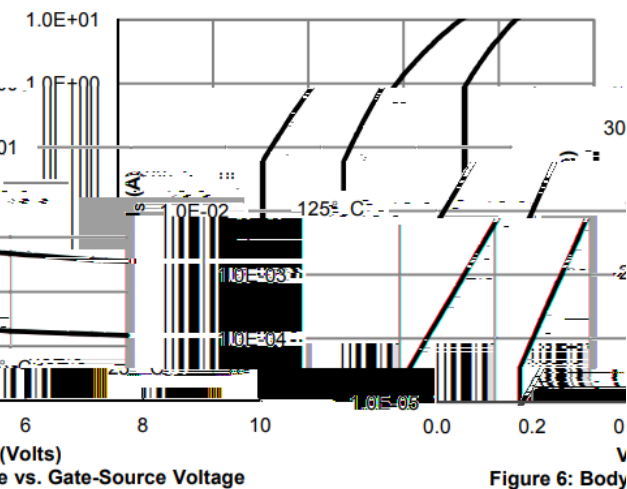


Figure 6: Body Diode Characteristics

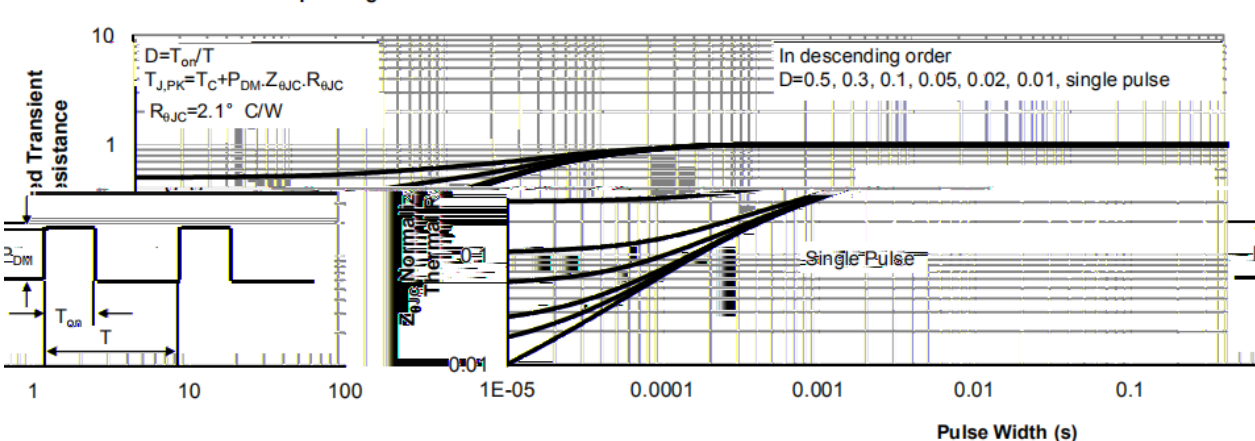
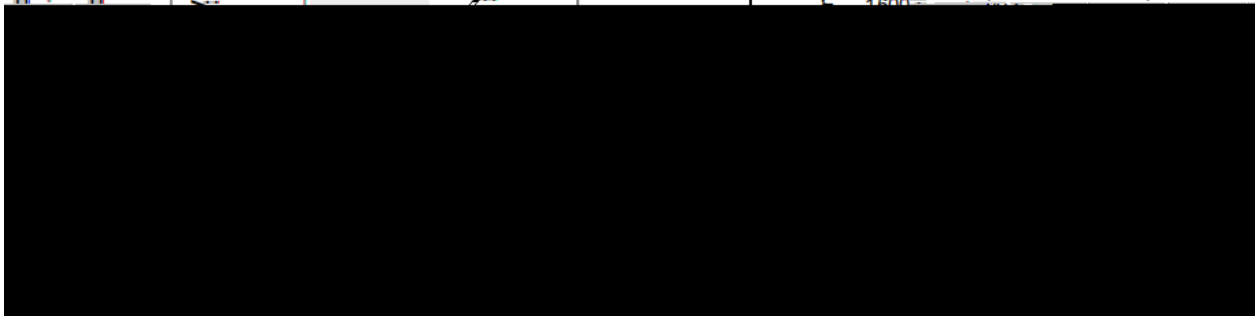
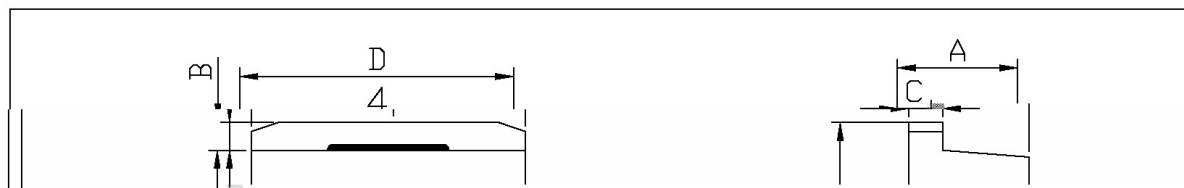
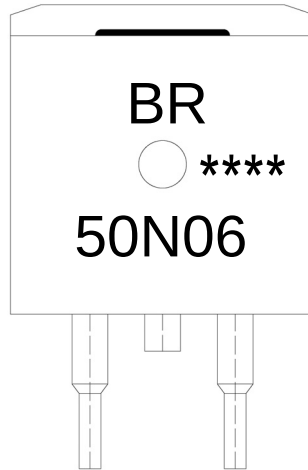


Figure 10: Normalized Maximum Transient Thermal Impedance



单位: mm						
Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters		
	Min	Max		Min	Max	
A	4.30	4.70	E	9.00	9.40	
B	1.00	1.40	e1	2.24	2.74	
b	0.70	0.90	e2	4.88	5.28	
b1	1.15	1.35	L1	15.00	16.00	
b2	0.40	0.60	L2	2.24	2.84	
C	1.20	1.40	L3	1.20	1.60	
D	9.80	10.20				
TP-263						

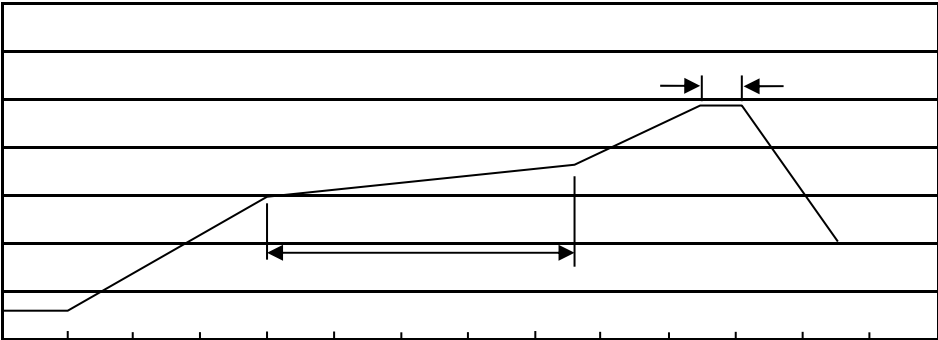


Note:

BR: Company Code

50N06: Product Type

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



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245 5 , Duration:5 0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
TO-263	800	1	800	6	4,800	13 ×24	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-263	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180