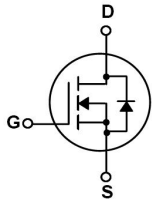


Rev.A Sep.-2017

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

$R_{DS(on)}$ C_{rss}
 Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching.

D
 Automotive DC Motor Control and Class D Amplifier.



PIN1 G PIN 2 D PIN 3 S

See Marking Instructions.

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Dynamic Characteristics						
Forward Transconductance	g_{fs}	$V_{DS}=15V, I_D=7.5A$		18		S
Input Capacitance	C_{iss}			2400		
Output Capacitance	C_{oss}					

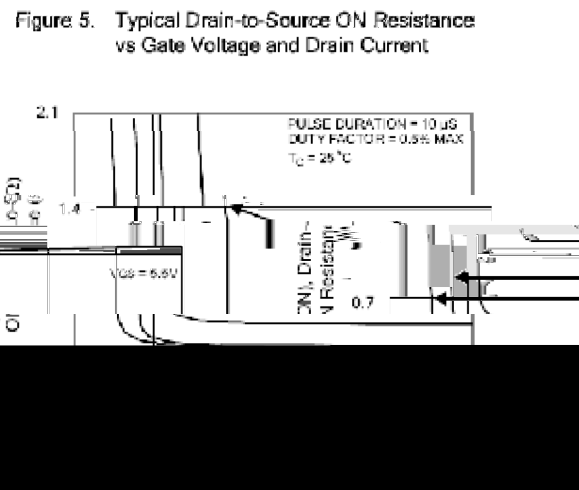
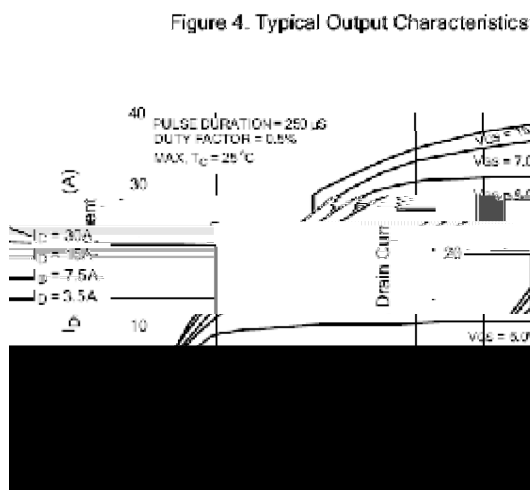
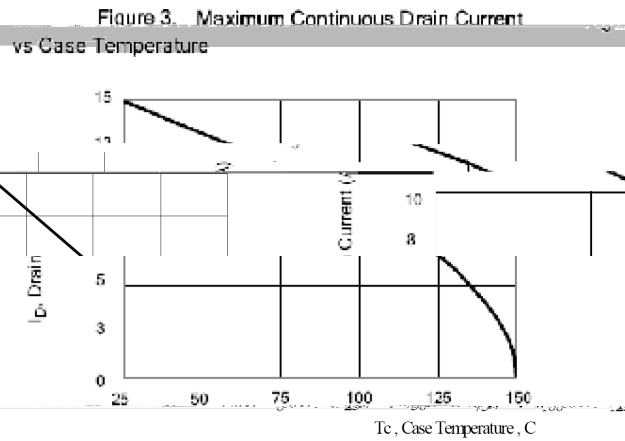
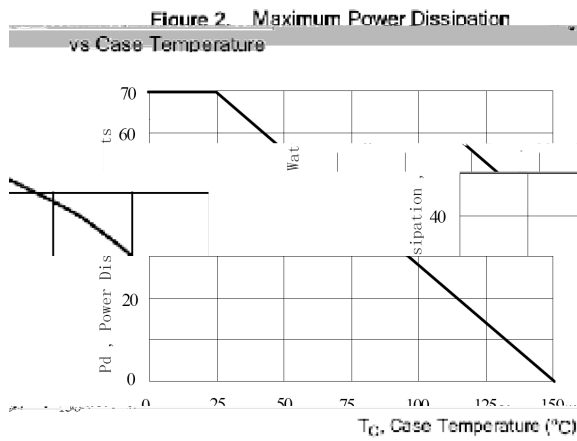
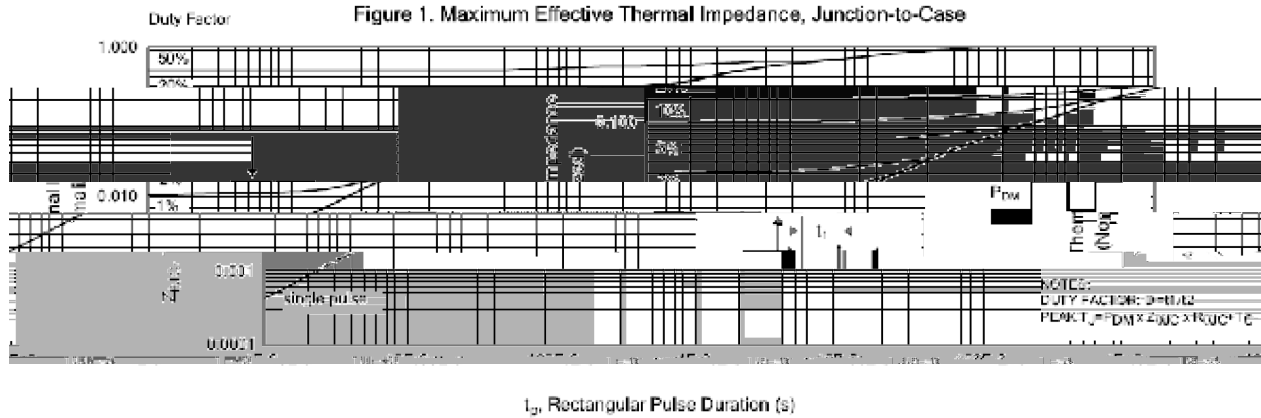


Figure 6. Maximum Peak Current Capability

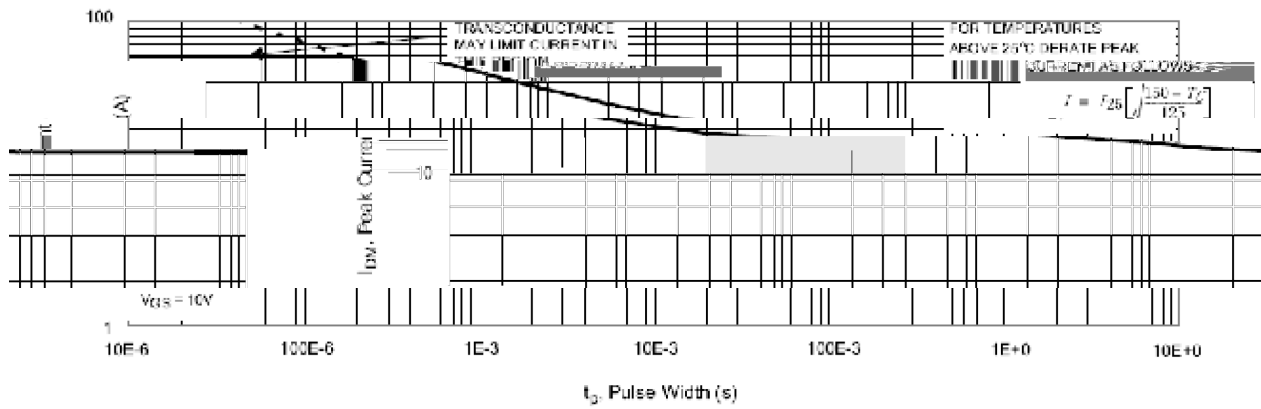
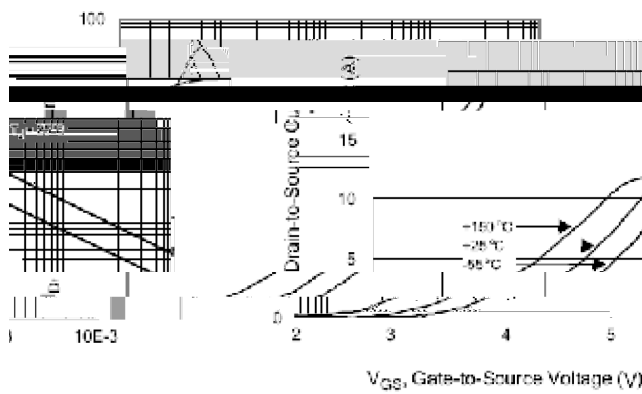

 Figure 7. Typical Transfer Characteristics
Switching Capability


Figure 8. Unclamped Inductive

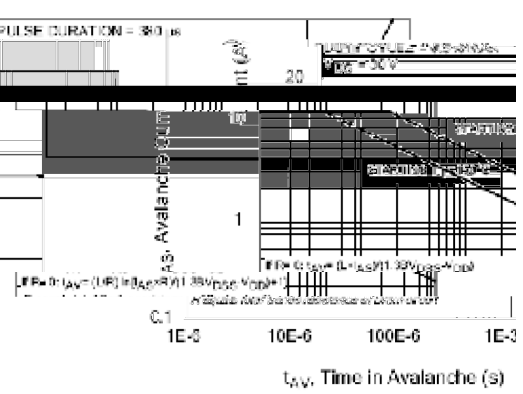


Figure 9. Typical Drain-to-Source ON-Resistance vs. Drain Current

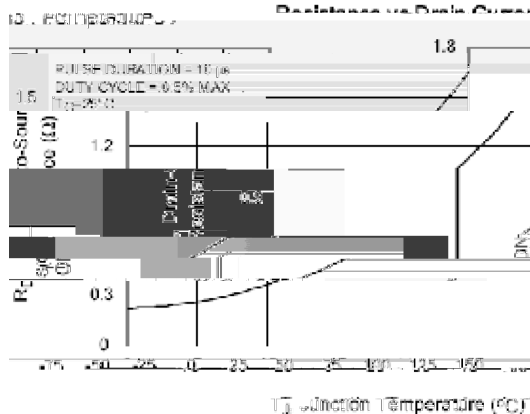


Figure 10. Typical Drain-to-Source ON-Resistance vs. Junction Temperature

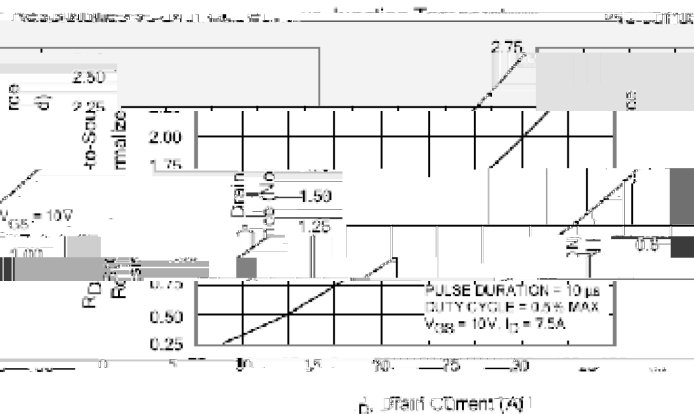


Figure 11. Typical Breakdown Voltage vs Junction Temperature

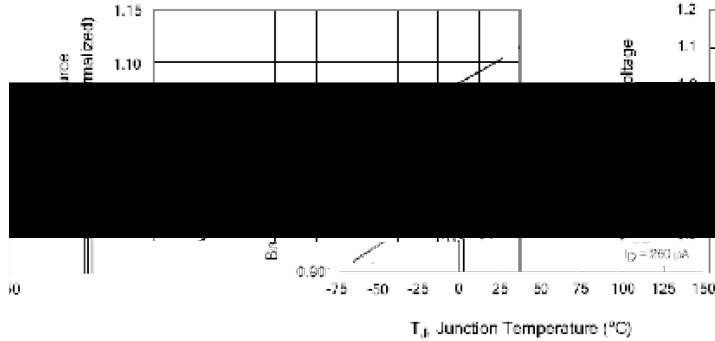


Figure 12. Typical Threshold Voltage vs Junction Temperature

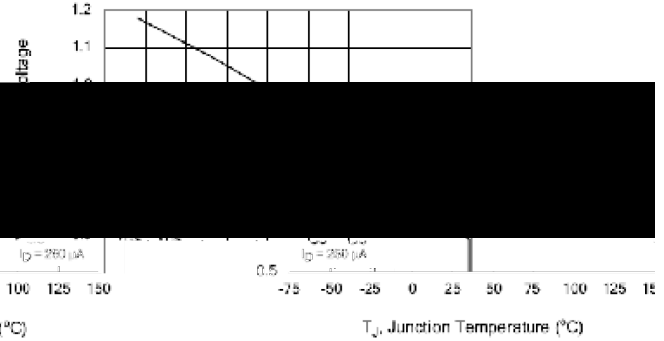


Figure 13. Maximum Forward Bias Safe Drain-to-Source Voltage

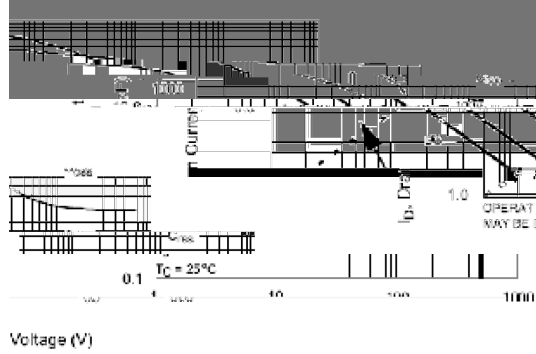


Figure 14. Typical Capacitance vs Operating Area

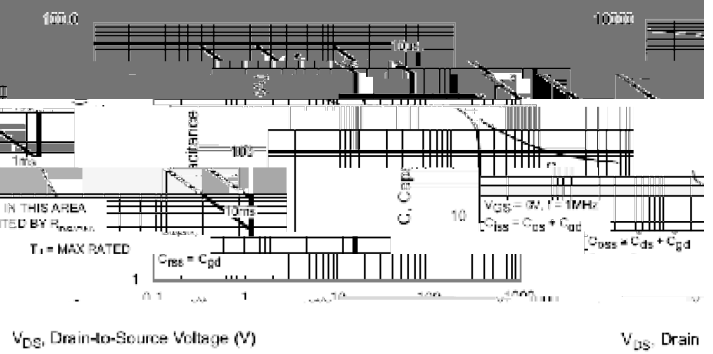


Figure 15. Typical Gate Charge Characteristics

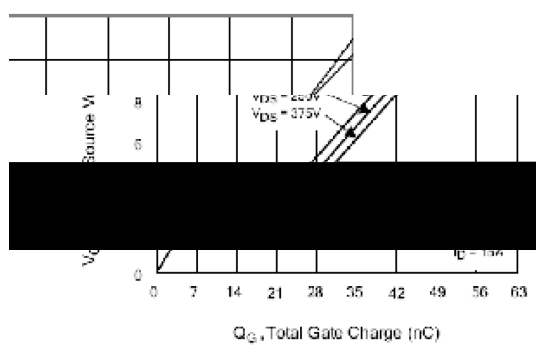
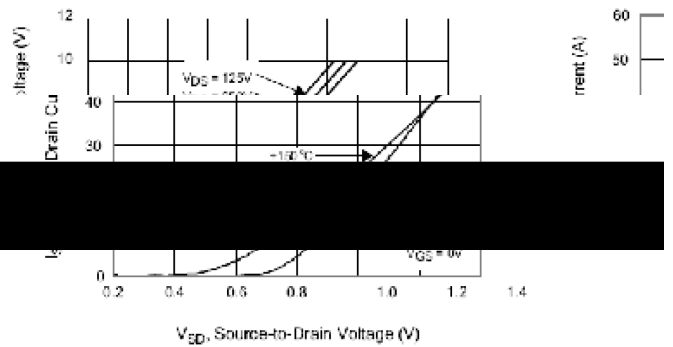
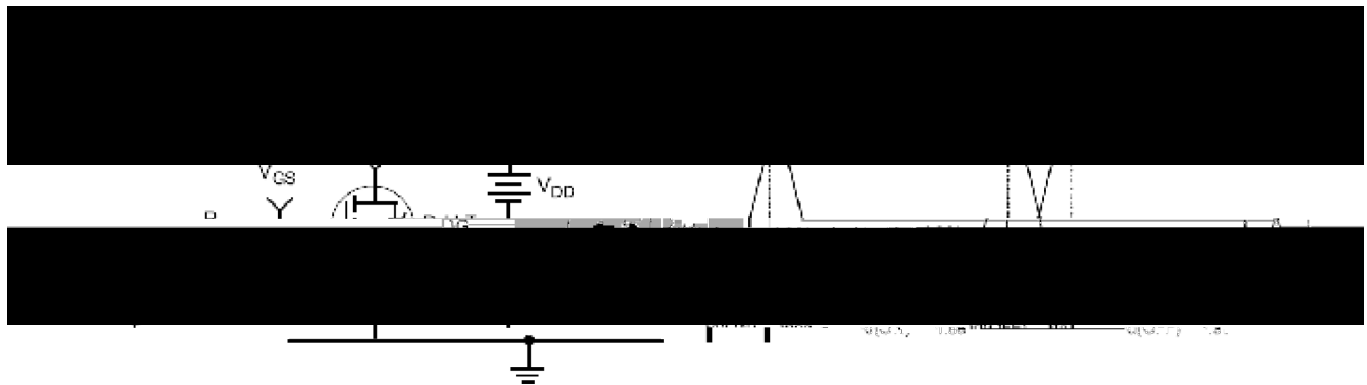
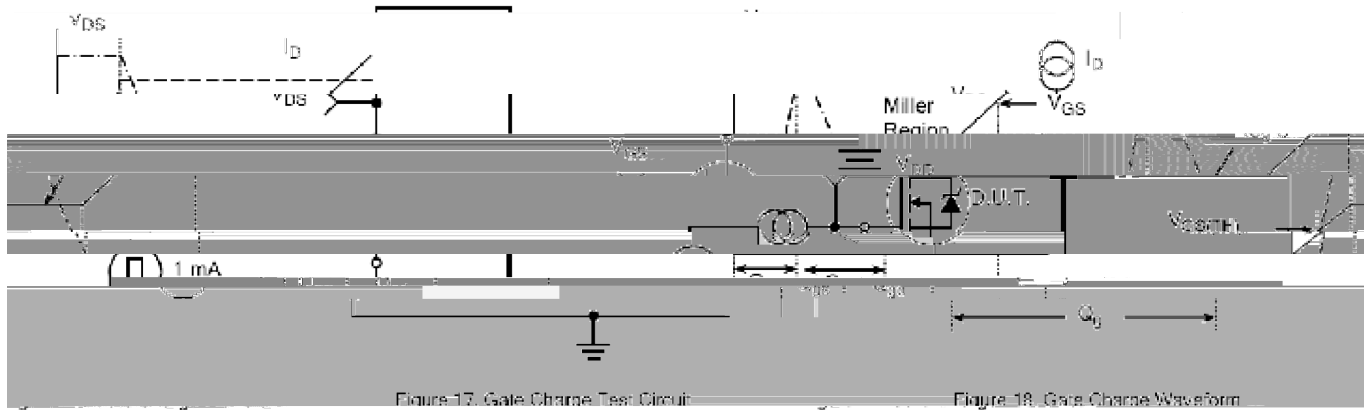


Figure 16. Typical Body Diode Transfer Characteristics





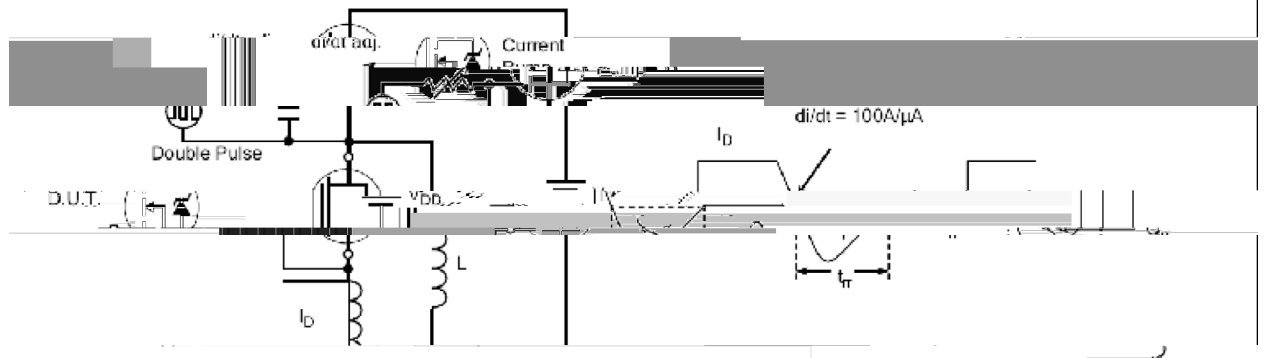


Figure 21. Basic Reverse-Biasing Test Circuit

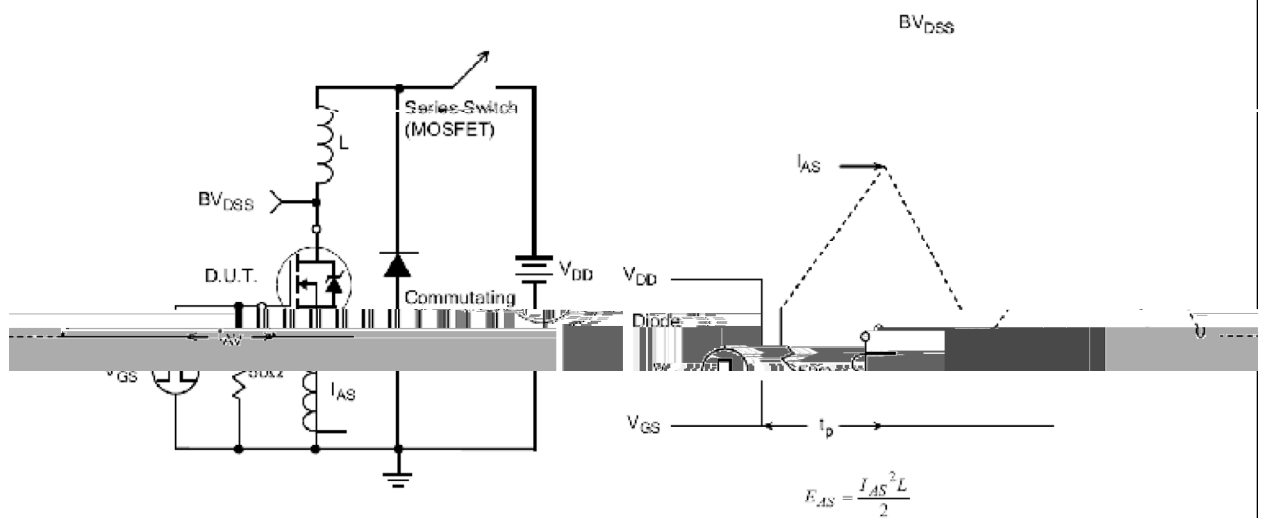
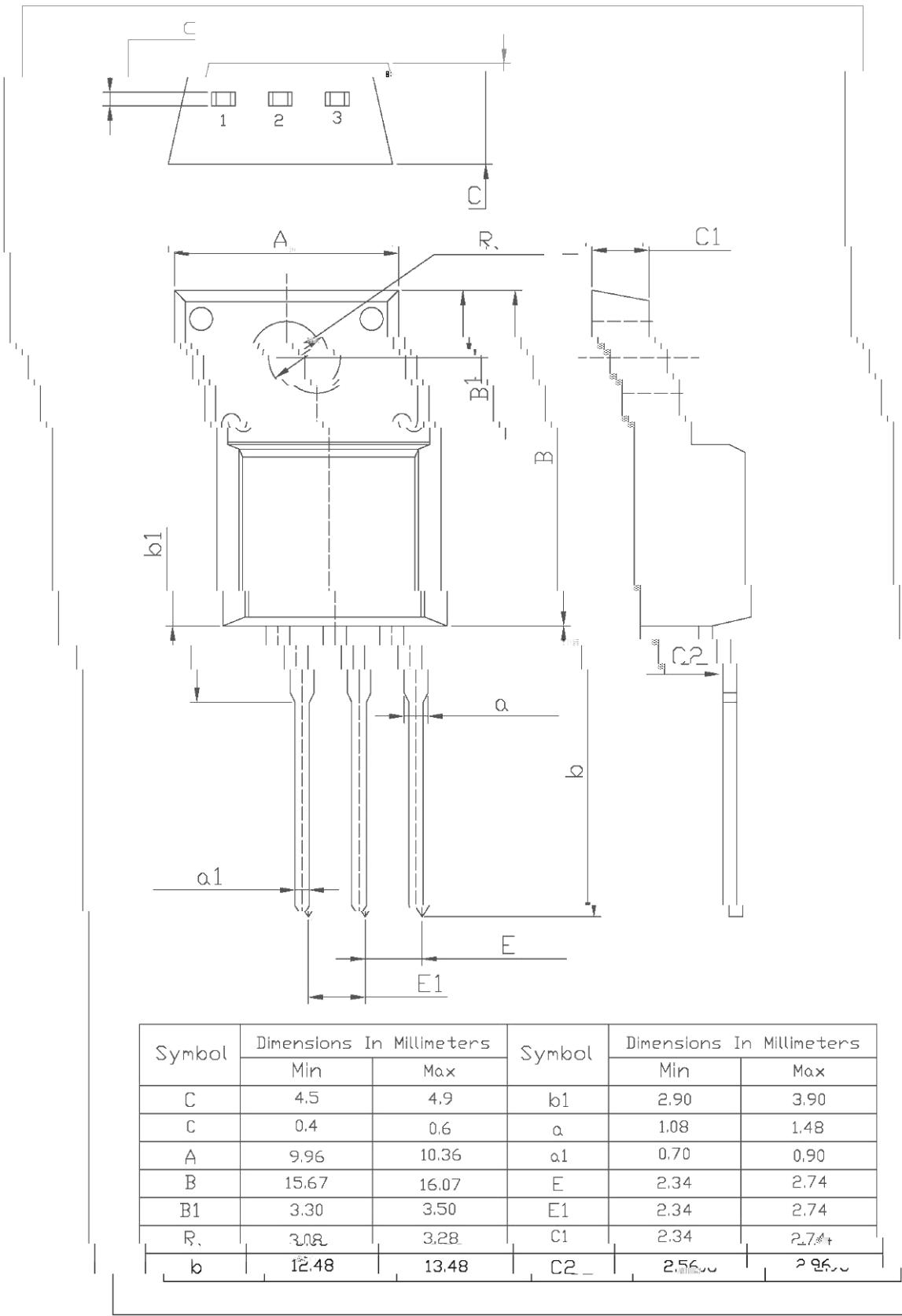


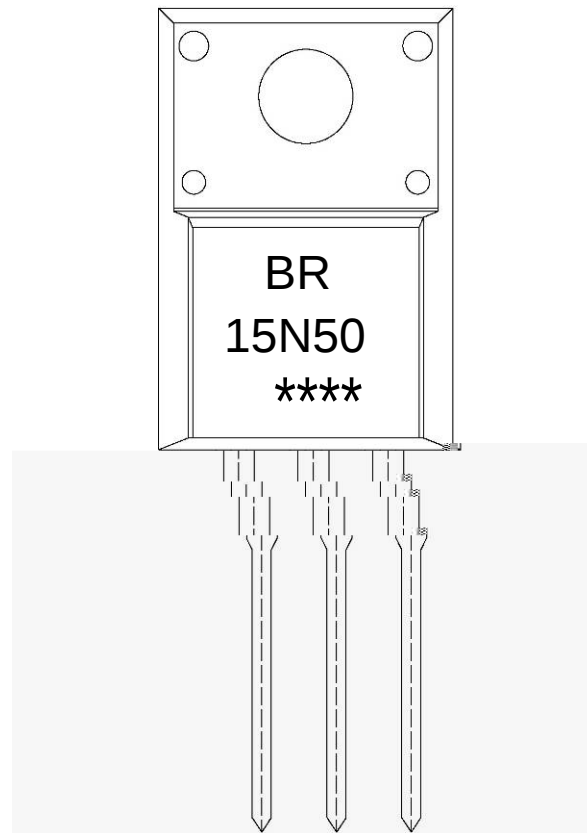
Figure 23. Unclamped Inductive Switching Test Circuit

Figure 24. Unclamped Inductive Switching Waveforms

TN-220E1

单位: mm





BR

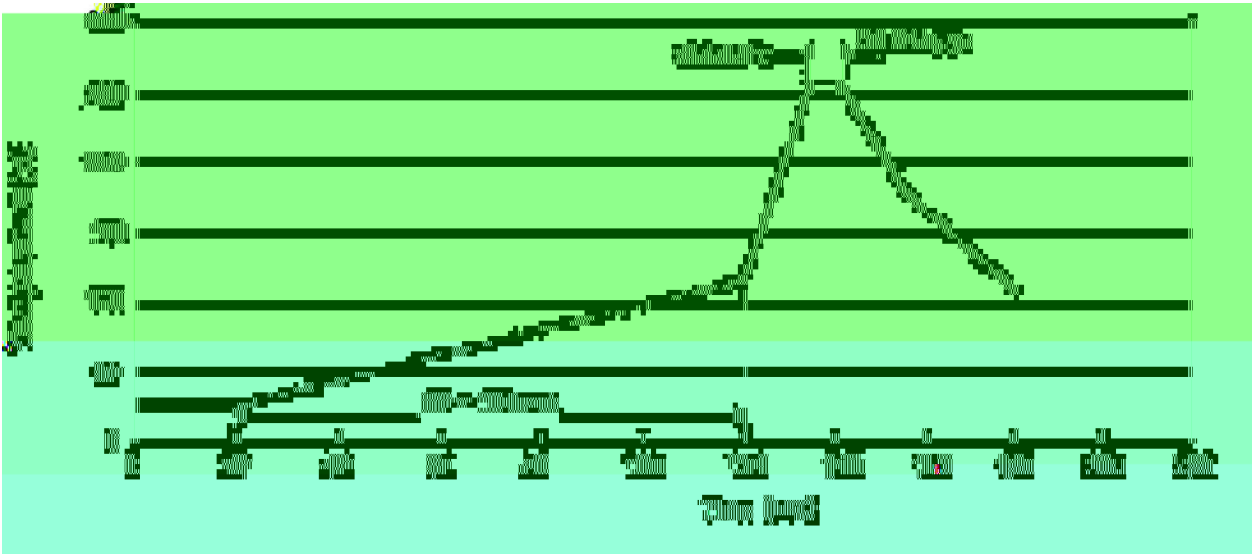
15N50

Note:

BR: Company Code

15N50: Product Type.

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



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150

,

Time:60~90sec.
- 2.Peak Temp.:255±5

,

Duration:5±0.5sec.
3. Cooling Speed: 2~10

,

/sec.

270±5

10±1 sec.

Temp.:270±5℃

Time:10±1 sec

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	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-220FL	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180