





Rev.B May.-2022

TO-252 N 650V

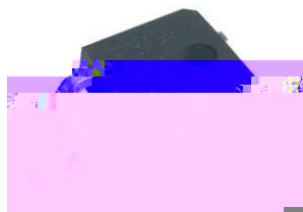
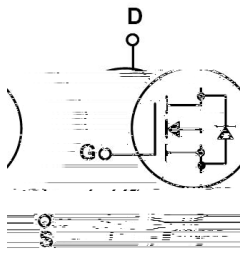
N-CHANNEL 650V Super-Junction Power MOSFET in a TO-252 Plastic Package.

$R_{DS(on)}$   $C_{rss}$

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

### DC/DC

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.



PIN 1 G

PIN 2 D

PIN 3 S

PIN 4 D

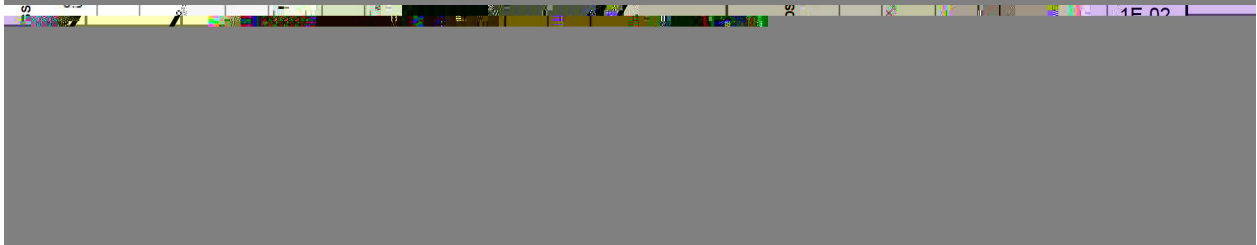
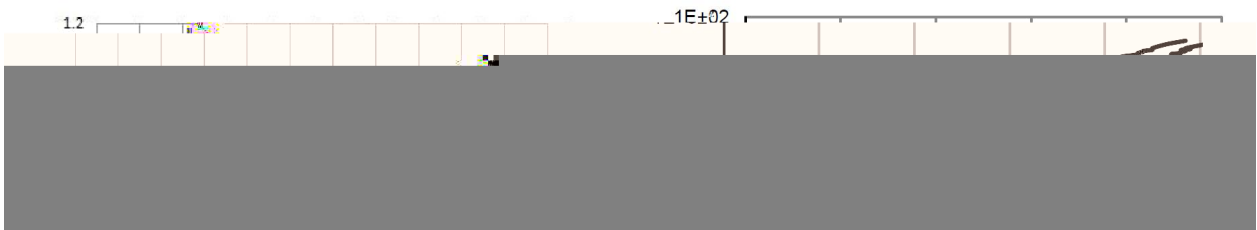
See Marking Instructions.

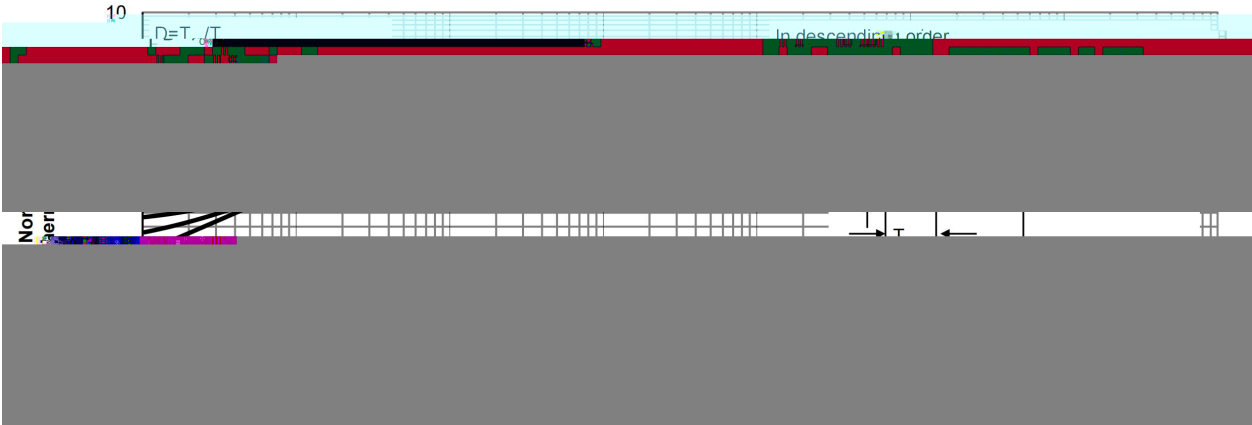
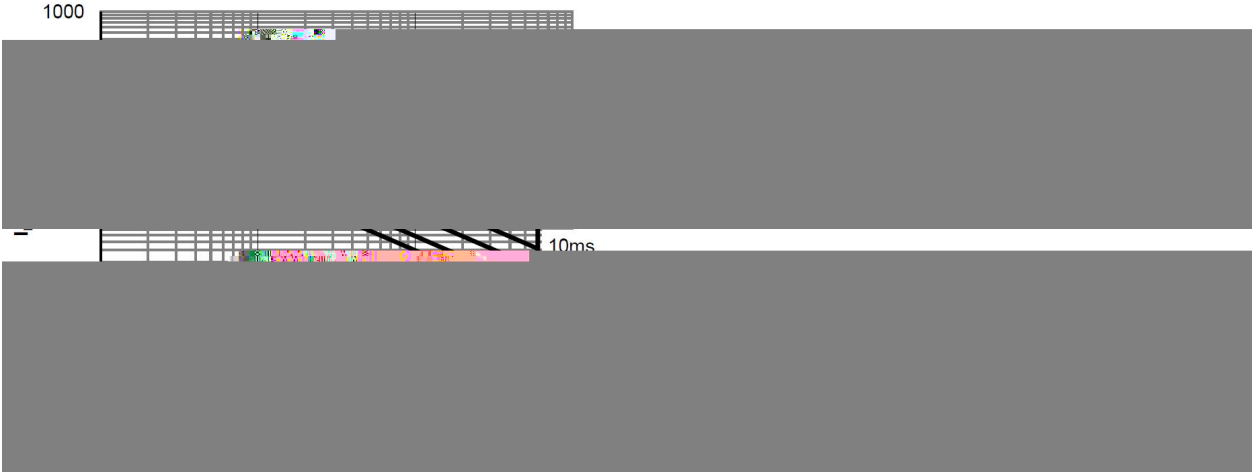
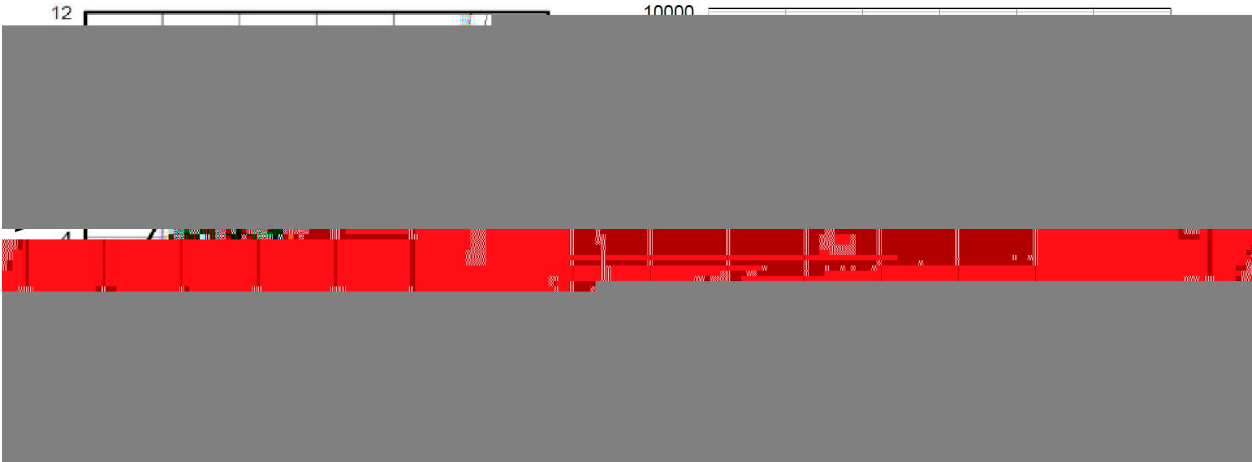
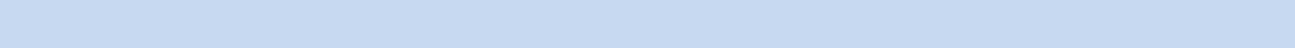


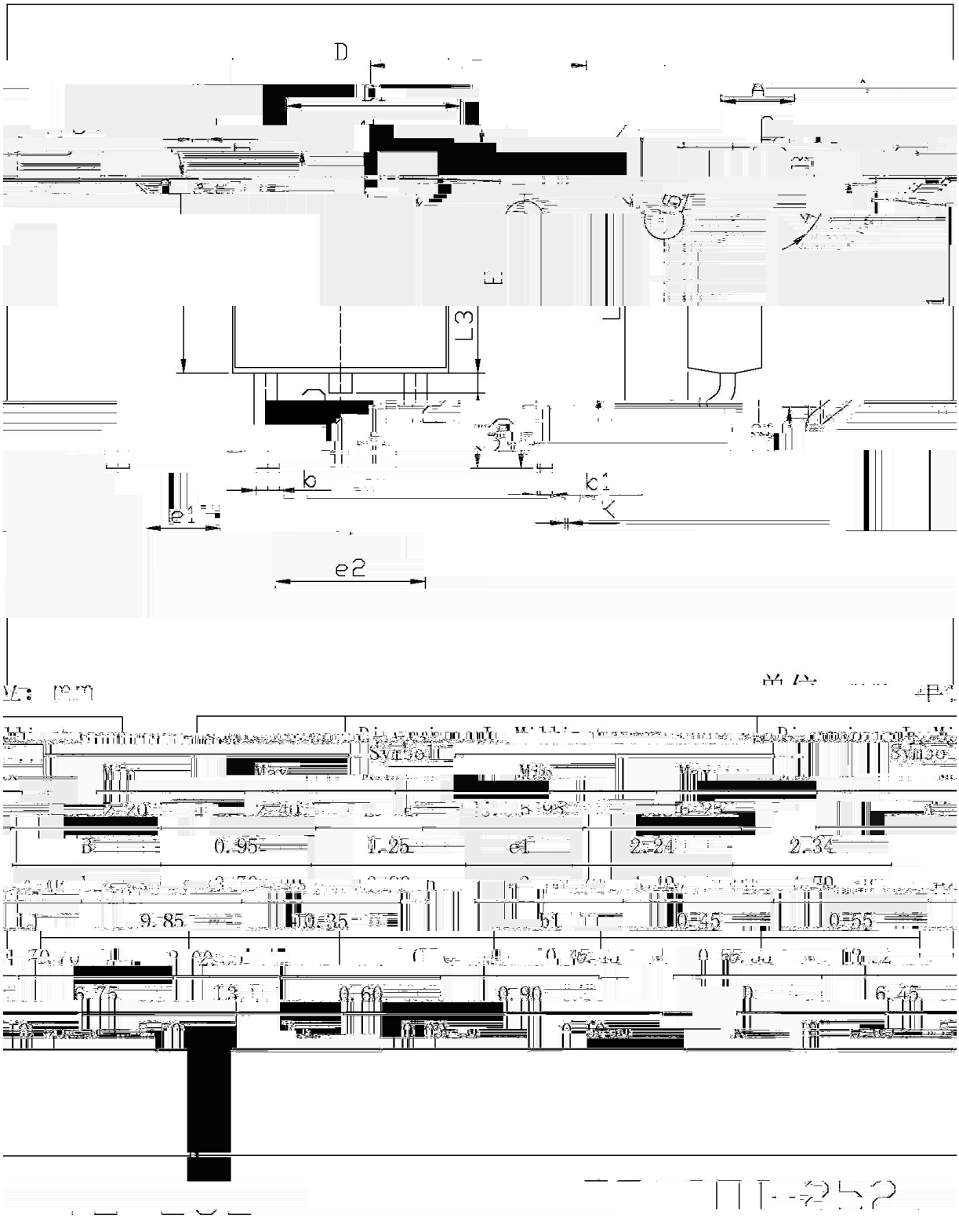
参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-	$V_{DS}$	650	V

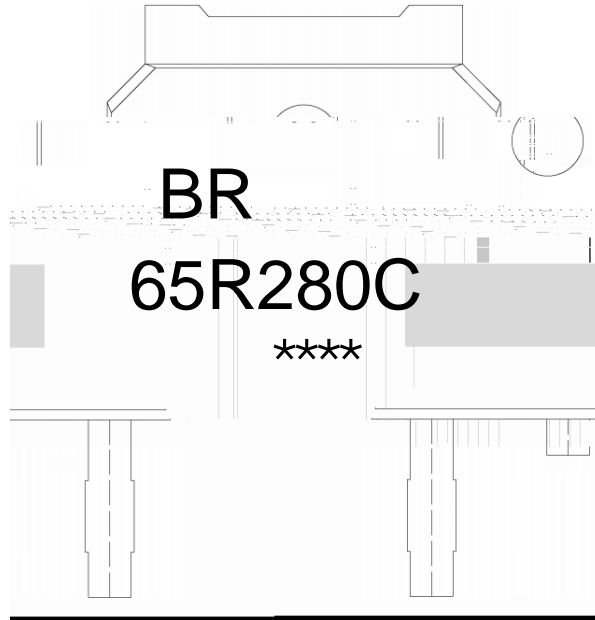


参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Continuous Diode Forward Current	$I_s$				14	A
Total Gate Charge	$Q_g$	$V_{DS}=520V$ $I_D=7.5A$ $V_{GS}=10V$		26		nC
Gate-Source Charge	$Q_{gs}$			3.6		nC
Gate-Drain Charge	$Q_{gd}$			10.5		nC
Reverse recovery time	$t_{rr}$	$V_R=400$				









BR

Note:

BR: Company Code

65R280C: Product Type Code

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



**Temperature Profile for IR Reflow Soldering(Pb-Free)**


**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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	6	30,000	13" x16	360x360x50	380x335x366

**/ TUBE**

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	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			