

BRD65R280C

Rev.B May.-2022



DATA SHEET

A	2022.4.28	ALL	AOS-AOD280A60		
B	2022.5.26	2,3,4,5	YC-RMX65R280SN_ReV1.1		

/ Descriptions

TO-252 N 650V

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

/ Features

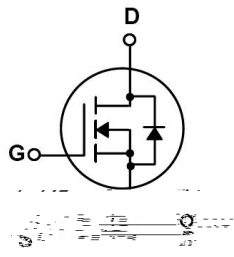
 $R_{DS(on)}$ C_{rss} Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.

/ Applications

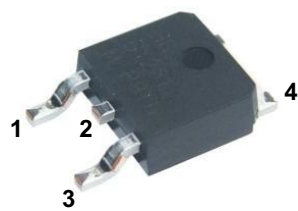
DC/DC

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

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

/ Marking

See Marking Instructions.

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参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Drain-Source Voltage	V_{DSS}	650	V

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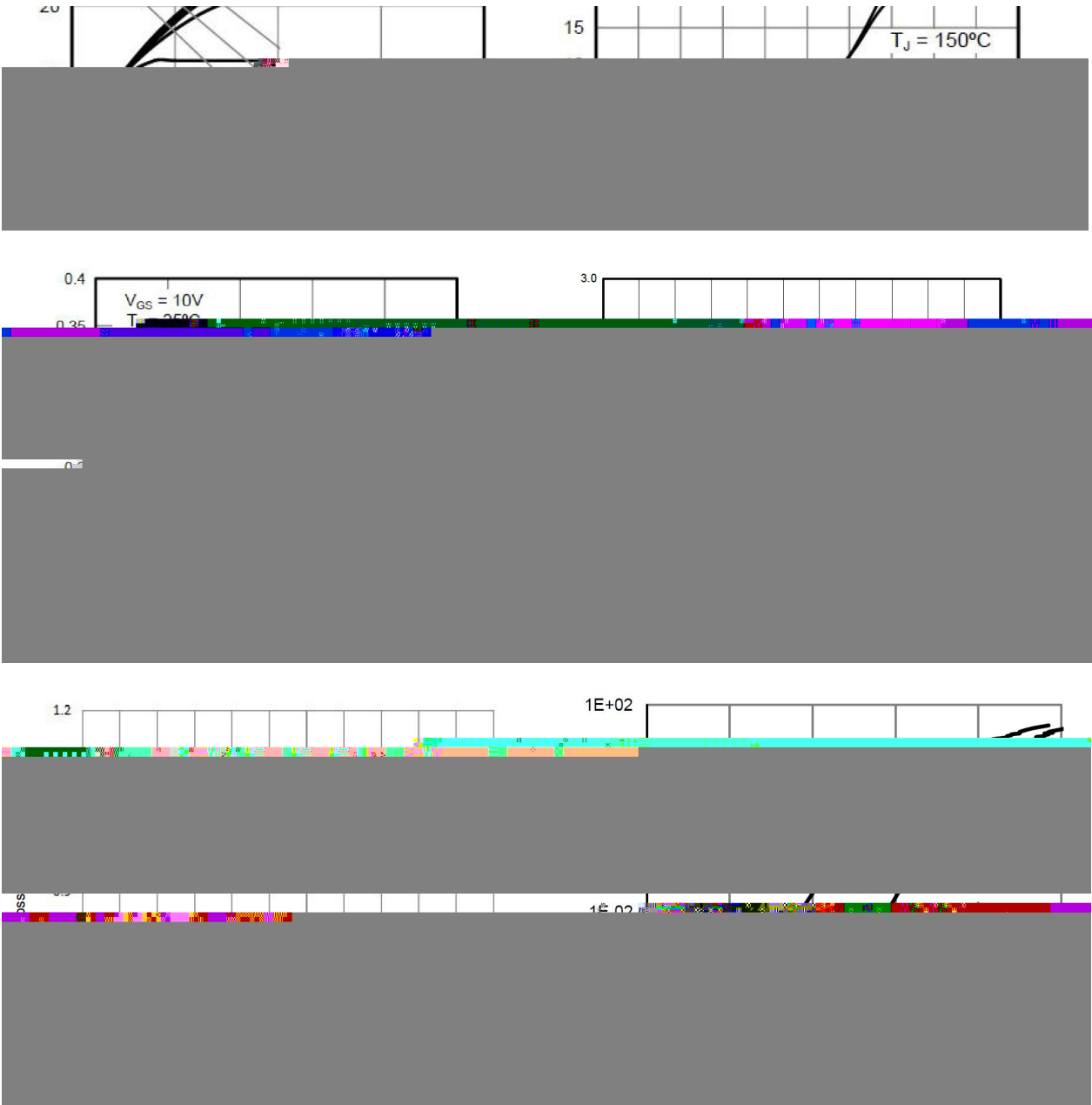
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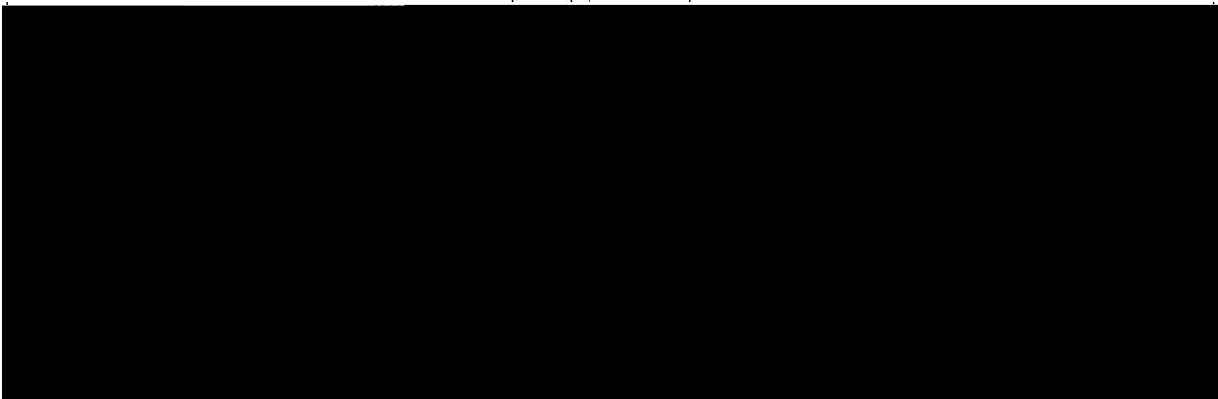
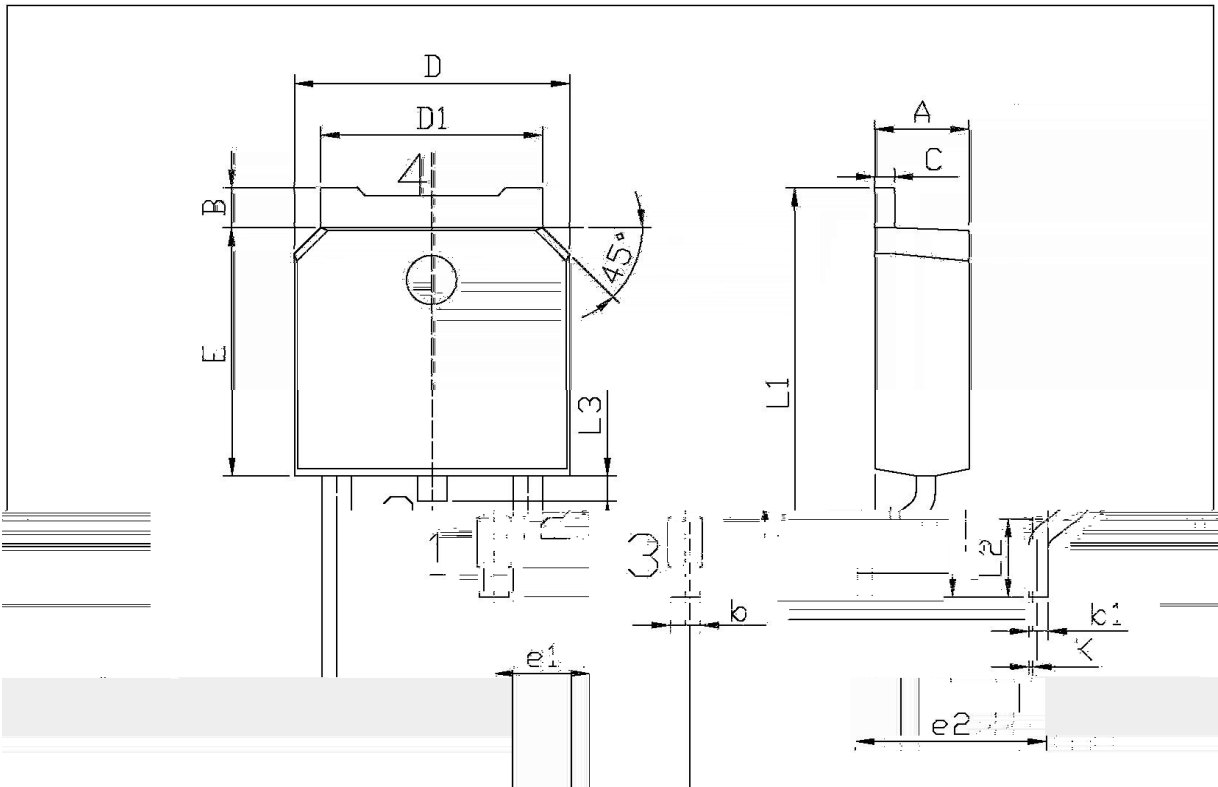
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参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Ma	单位 Unit
Continuous Diode Forward Current	I_S				14	A
Total Gate Charge	g	$V_{DS}=520V$ $I_D = .5A$ $V_{GS}=10V$		26		nC
Gate-Source Charge	gs			3.6		nC
Gate-Drain Charge	gd			10.5		nC
Reverse recovery timer	t_{rr}	$V_R=400 =4R$				

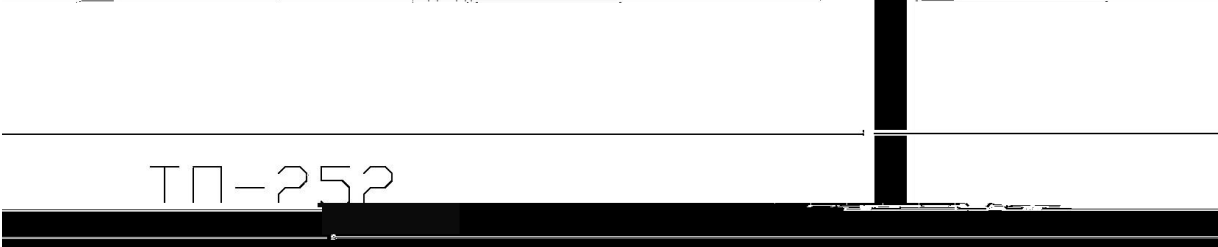
/ Electrical Characteristic Curve



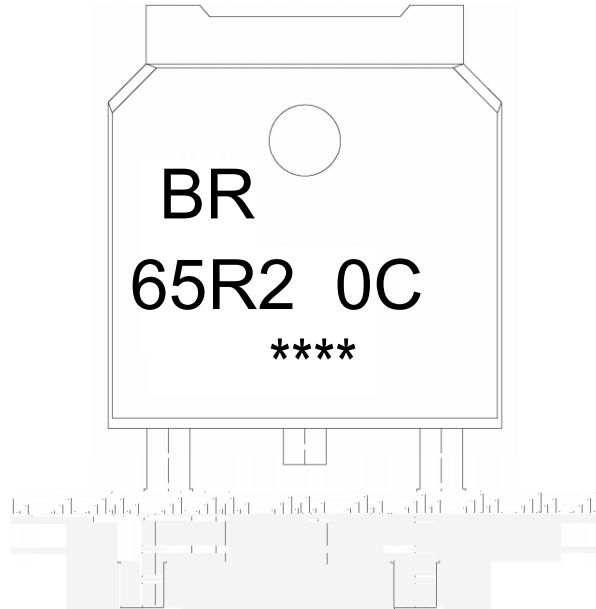
/ Package Dimensions



1.70	2.00	0.60	0.90	0.45	0.55	L2	
57	13	0.60	0.90	D	6.45	6.78	
0	0.50	0.60	0.90	D	5.10	5.50	



/ Marking nstructions



BR

65R280C

Note:

BR: Company Code

65R2 0C: Product Type Code

: Lot No. Code, code change with Lot No

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Note:

- | | | | |
|---|------------|----------|---|
| 1 | 150 1 0 | 60 0sec | 1.Preheating:150 1 0 , Time:60 0sec. |
| 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. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260 5℃ Time:10 1 sec

/ Packaging SPEC

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	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" ×16	360×360×50	380×335×366

/ 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			