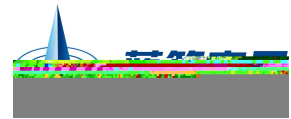


BRD65R280C

Rev.B May.-2022



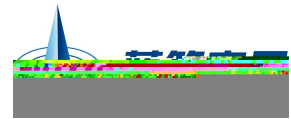
DATA SHEET

/ Revised record

A	2022.4.28	ALL	AOS-AOD 280A 60		
B	2022.5.26	2,3,4,5	YC-RMX65R280SN_ReV1.1		

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DATA SHEET

/ Descriptions

TO-252 N 650V

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

/ Features

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

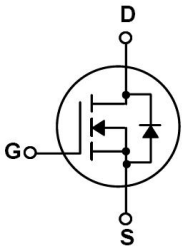
Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.

/ Applications

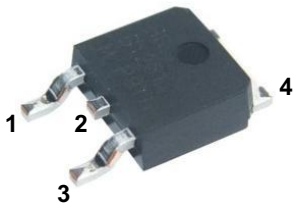
DC/DC

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

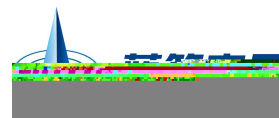
PIN 4 D

/ Marking

See Marking Instructions.

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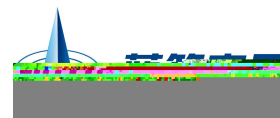


DATA SHEET

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

BRD65R280C

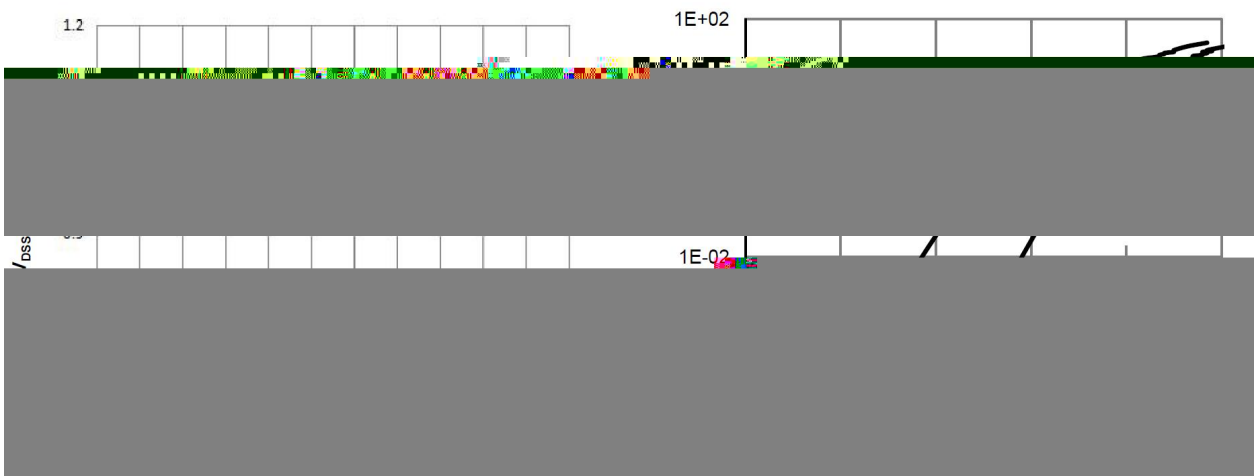
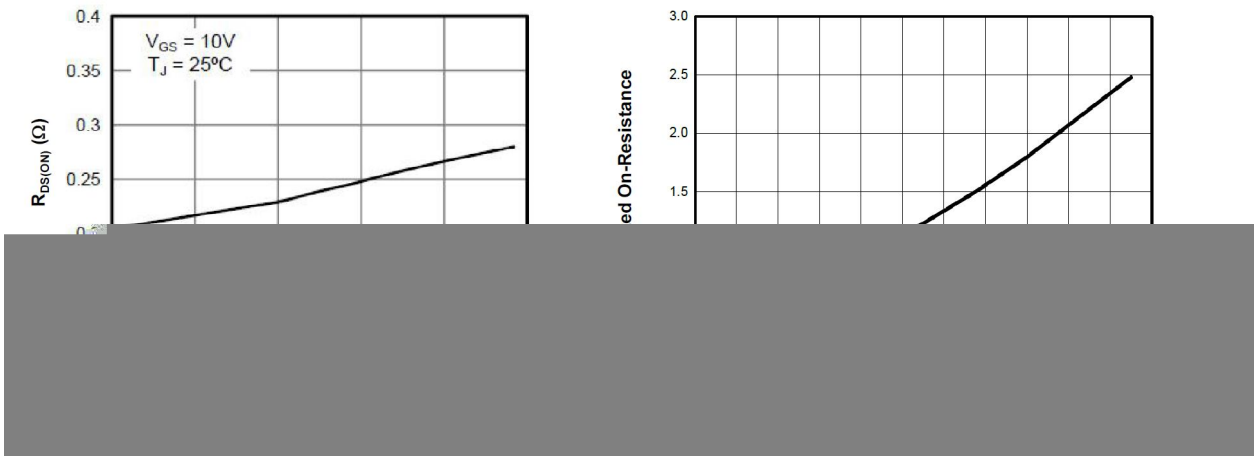
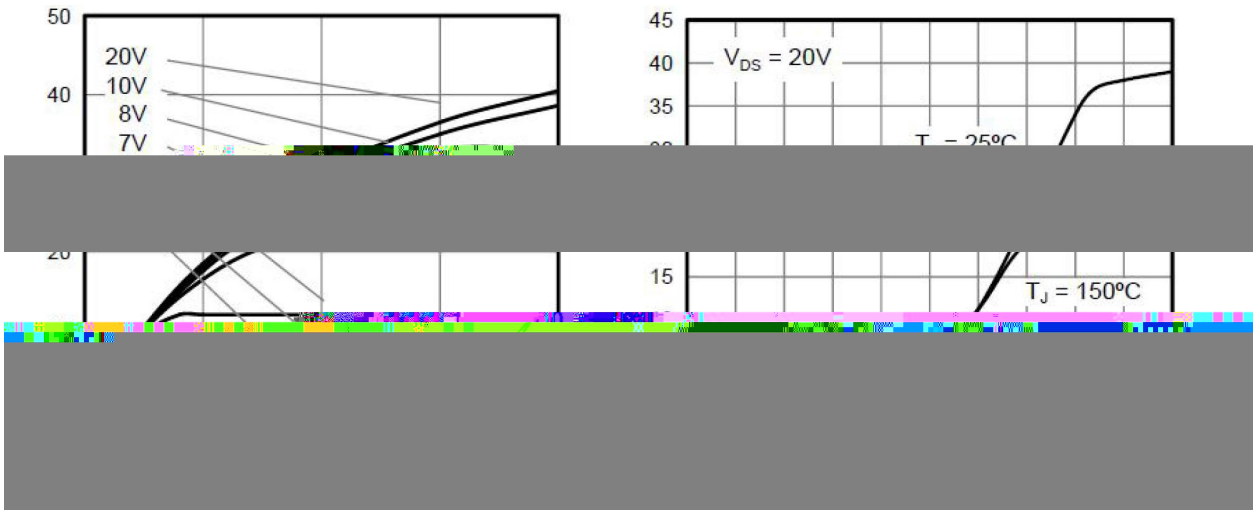
Rev.B May.-2022



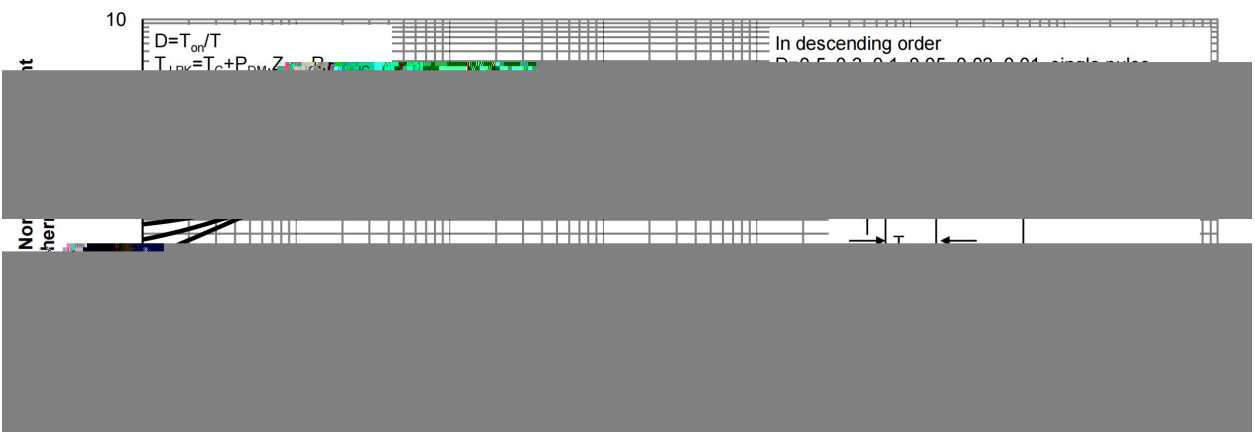
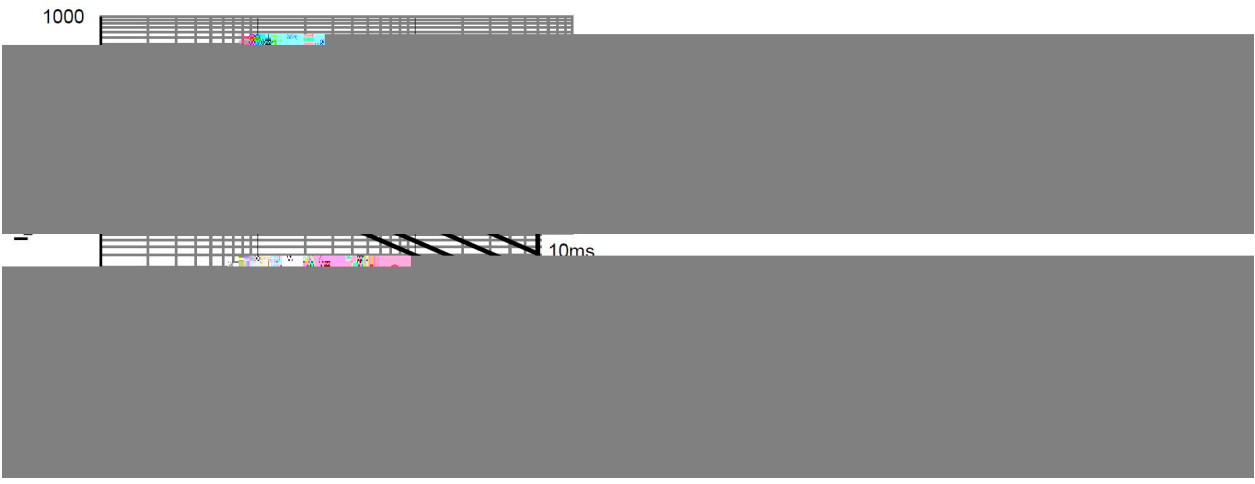
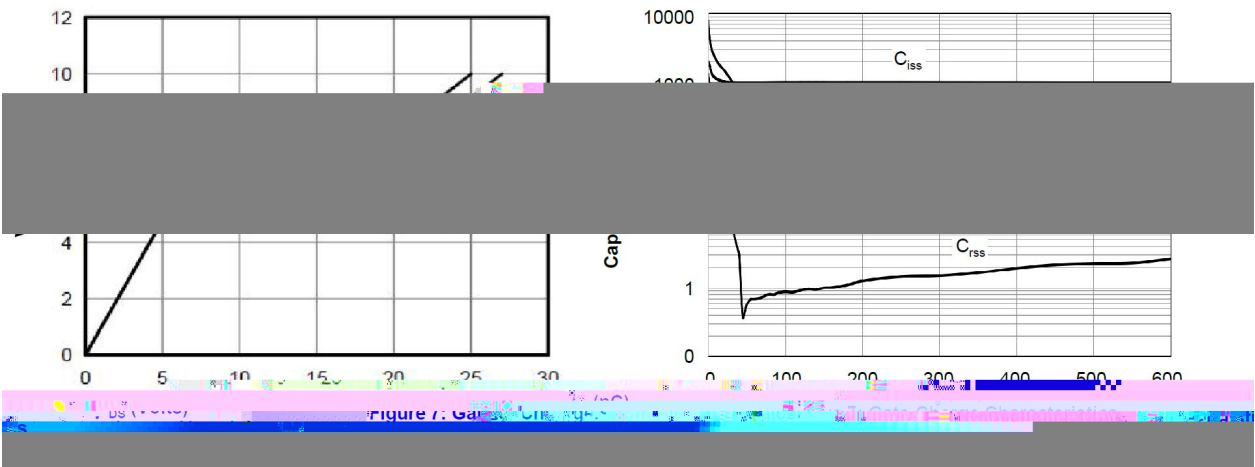
DATA SHEET

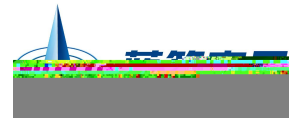
参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Ma	单位 Unit
Continuous Diode Forward Current	I_S				14	A
Total Gate Charge	g	$V_{DS}=520V$ $I_D = .5A$ $V_{GS}=10V$		26		nC
Gate-Source Charge	g_S			3.6		nC
Gate-Drain Charge	g_D			10.5		nC
Reverse recovery time	t_{rr}	V_R				

/ Electrical Characteristic Curve

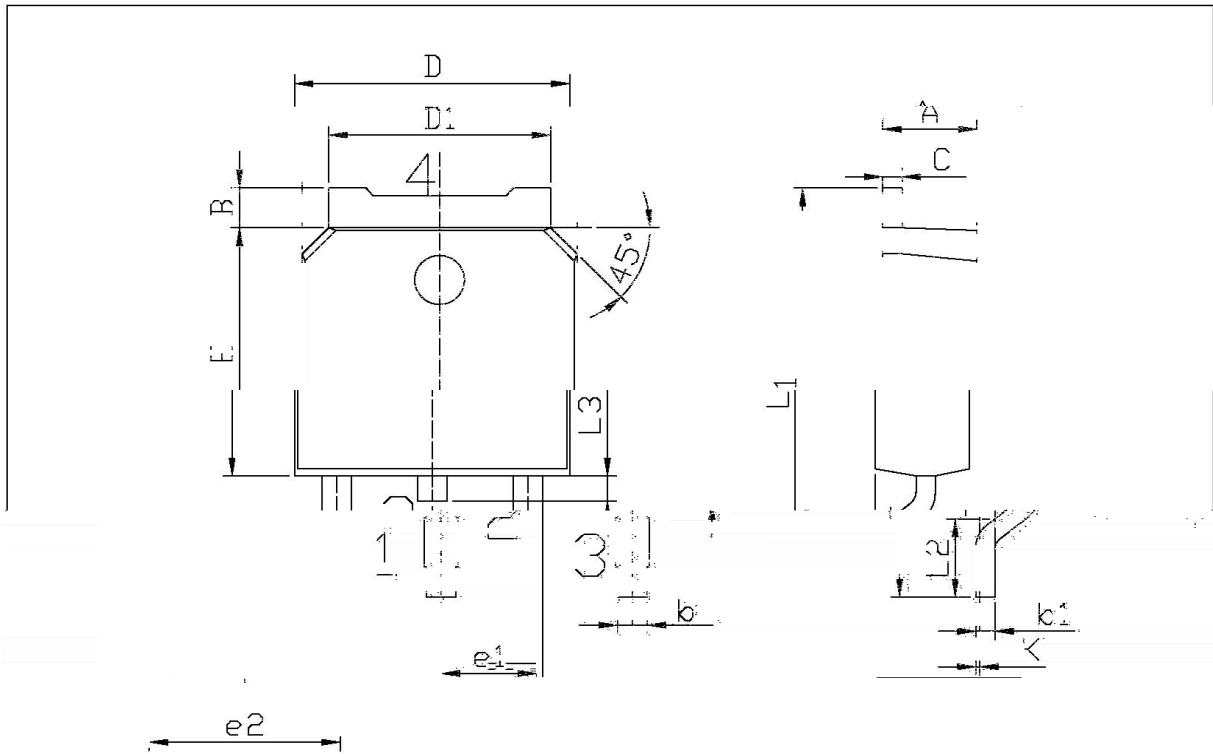


/ Electrical Characteristic Curve





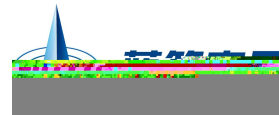
/ Package Dimensions



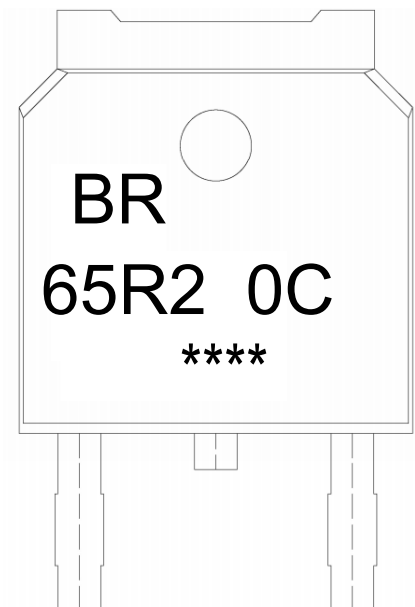
单位: mm

Dimensions In Millimeters		Dimensions In Millimeters		Symbol	
Min	Max	Min	Max		Symbol
6.95	6.25	2.20	2.40	B	
e1	2.24	2.34		B	0.95 1.25
e2	4.48	4.73		b	0.70 0.90
9.85	10.35	b1	0.45 0.55		
1.70	2.00	C	0.45 0.55		
6.75	L3	0.60	0.90	D	6.45
5.50	5.50	0.60	0.60	D1	5.80

TN-252



/ Marking Instructions



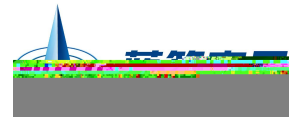
BR

Note:

BR: Company Code

65R2 0C: Product Type Code

: Lot No. Code, code change with Lot No



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

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			