

**BRD65R380C**  
Rev.B May.-2022



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DATA SHEET

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Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DSS}$	650	V
R Drain Current	$I_D(T_c=25^\circ C)$	11	A
Drain Current - Pulsed	$I_{DM}$	44	A
Gate-Source Voltage	$V_{GS}$	$\pm 30$	V
Single Pulsed Avalanche Energy	$E_{AS}$	277	mJ
Avalanche Current	$I_{AS}$	8	A

h Power

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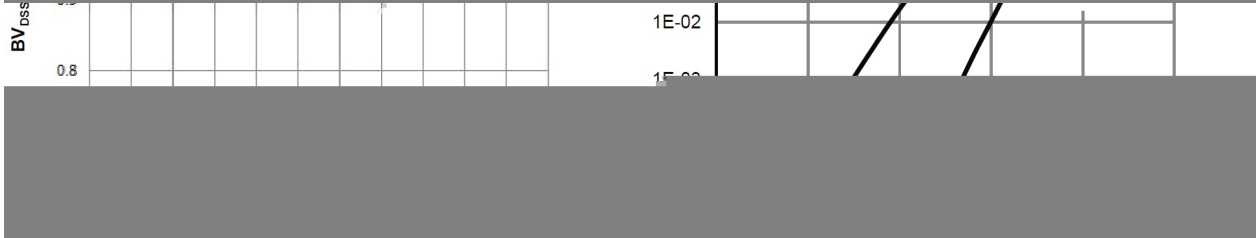
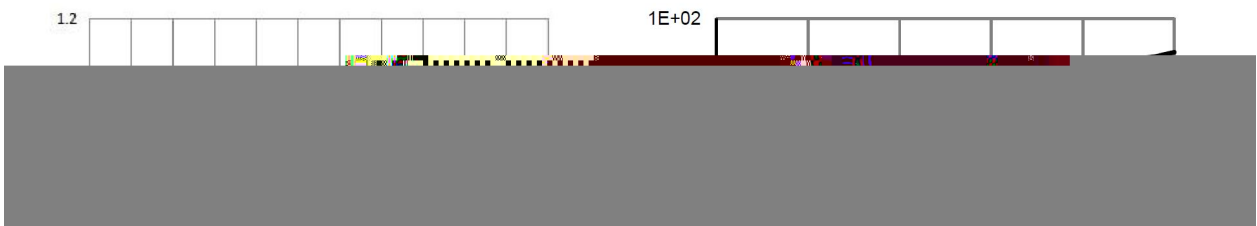
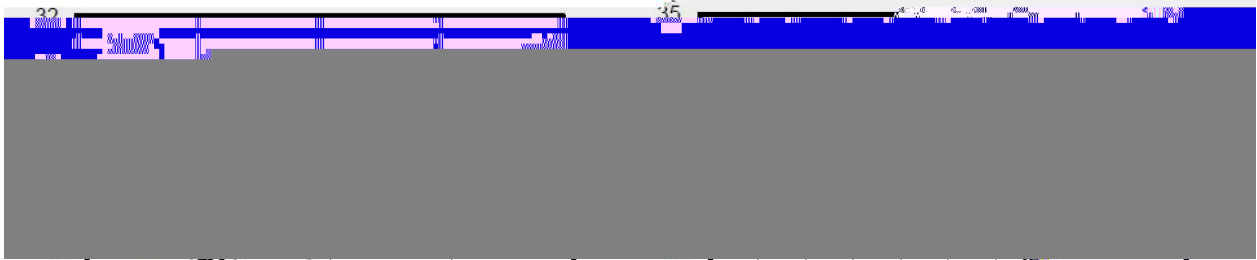
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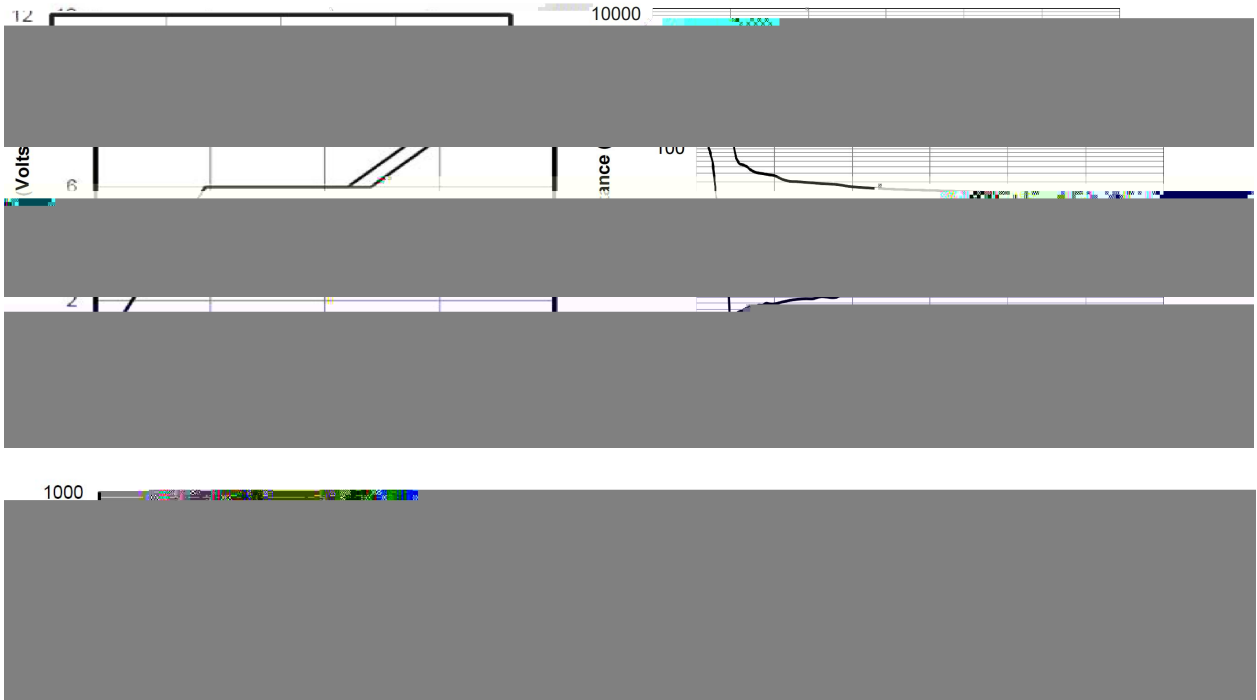
DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous Diode Forward Current	$I_S$				11	A
Total Gate Charge	$Q_g$	$V_{DS}=480V$ $I_D=5.5A$ $V_{GS}=10V$		19.2		nC
Gate-Source Charge	$Q_{gs}$			C	1	nC
Gate-Drain Charge	$Q_{gd}$				8.2	nC
Reverse Recovery Time	$t_{rr}$	$V_R=400V$ , $I_F=5.5A$ , $di_F/dt=100A/\mu s$		310		ns

**/ Electrical Characteristic Curve**



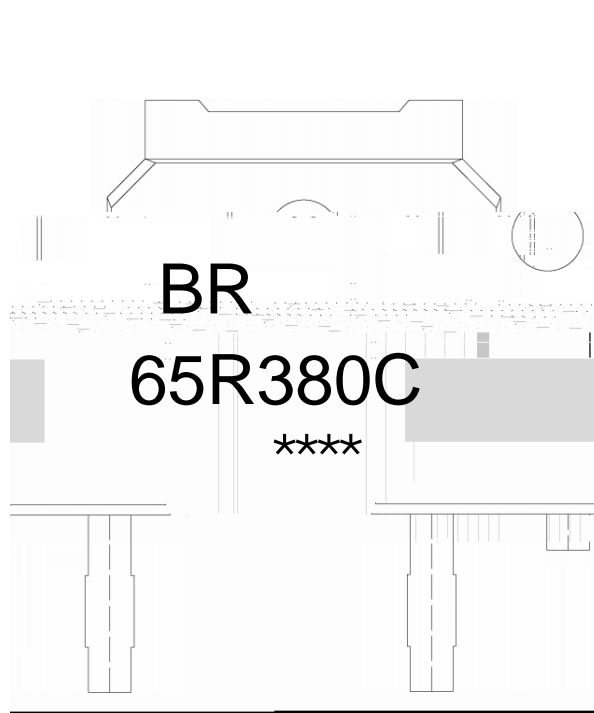
**/ Electrical Characteristic Curve**







**/ Marking Instructions**



BR

Note:

BR: Company Code

65R380C: 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.            |

**/ 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 <sup>3</sup> )		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	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 /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box			