

BRS2AQ~BRS2MQ

Rev.A Aug.-2024

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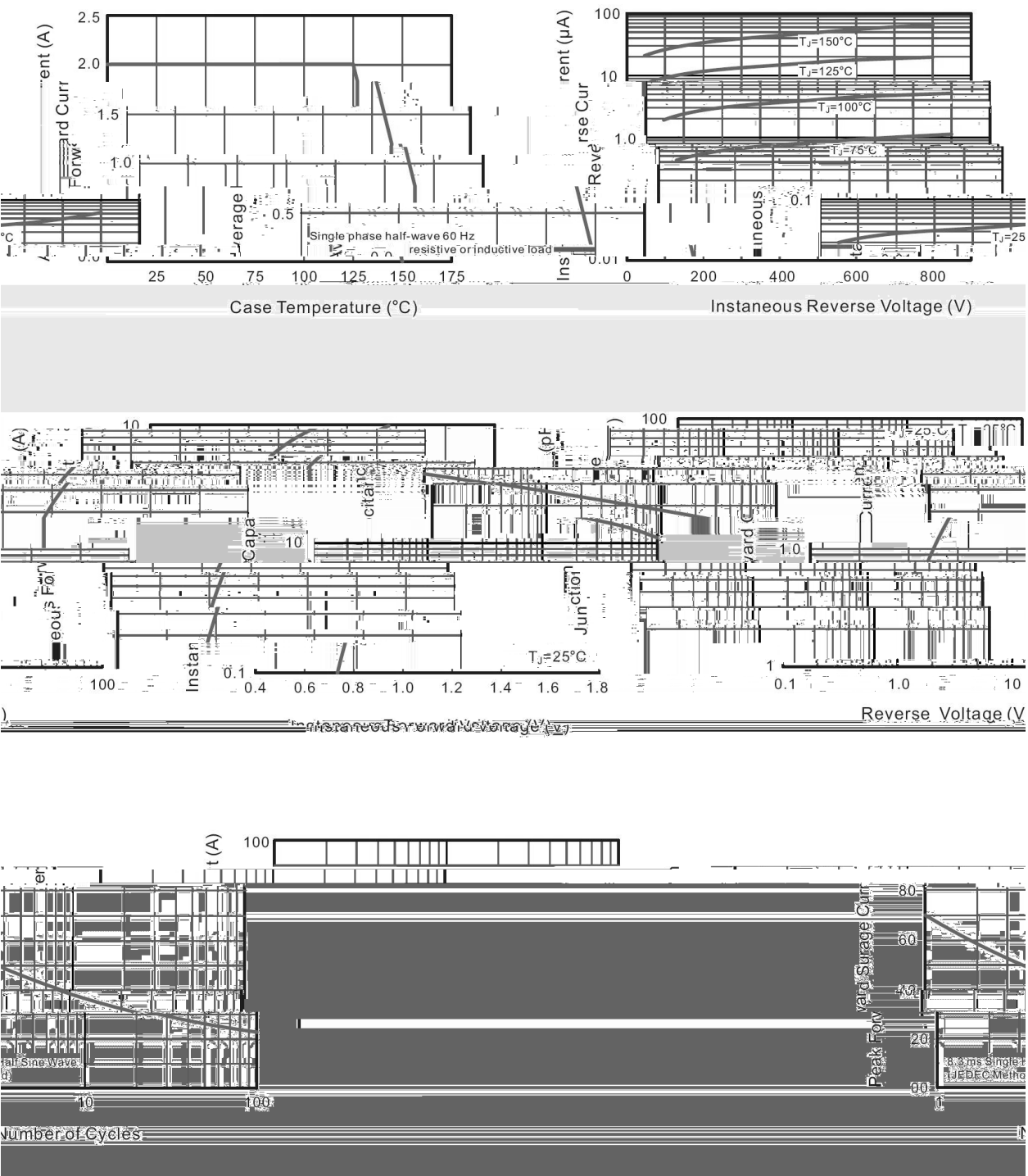
Parameter	Symbol	Rating							Unit
		BRS2AQ	BRS2BQ	BRS2DQ	BRS2GQ	BRS2JQ	BRS2KQ	BRS2MQ	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_F (AV)$	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Typical Junction Capacitance at $V_R=4V$ $f=1MHz$	C_j	25							pF
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	65							°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150							°C

Note:

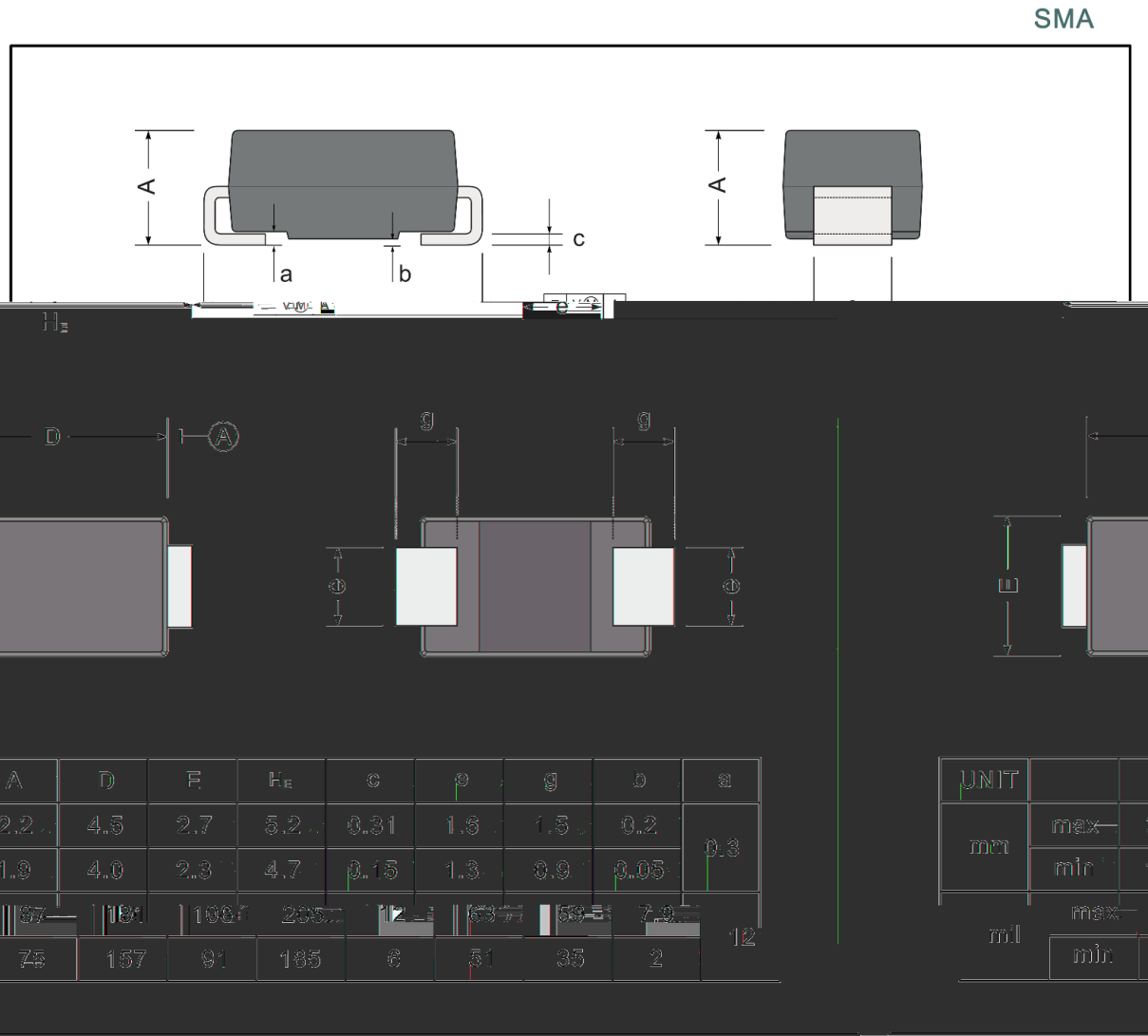
- 1 P.C.B. mounted with 2.0 X 2.0" (5 X5cm) copper pad areas.

Parameter	Symbol	Test Conditions	数值 Rating							Unit
			BRS2AQ	BRS2BQ	BRS2DQ	BRS2GQ	BRS2JQ	BRS2KQ	BRS2MQ	
Maximum Instantaneous Forward Voltage	V_F	$I_F=2.0A$	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^{\circ}C$ $T_a=125$	5.0							μA

/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



S2A
Q

Note:

S2A Product Type Code

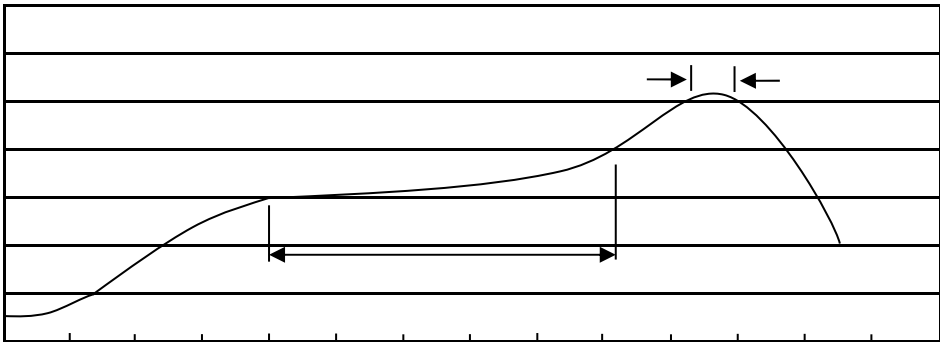
Q: Automobile halogen-free product Code

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

Marking

Type number	Marking code
BRS2AQ	S2AQ
BRS2BQ	S2BQ
BRS2DQ	S2DQ
BRS2GQ	S2GQ
BRS2JQ	S2JQ
BRS2KQ	S2KQ
BRS2MQ	S2MQ

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



Note:

- | | | | | | |
|---|-------|-----|-----------|---|--|
| 1 | 150 | 200 | 60 | 120sec; | 1.Preheating:150~200 , Time:60~120sec. |
| 2 | 255±5 | | 5±0.5sec; | 2.Peak Temp.:255±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
SMA	5,000	2	10,000	7	70,000	13" ×12	336×336×40	380×335×366

/ Notices