

BRS2AQ~BRS2MQ

Rev.A Aug.-2024

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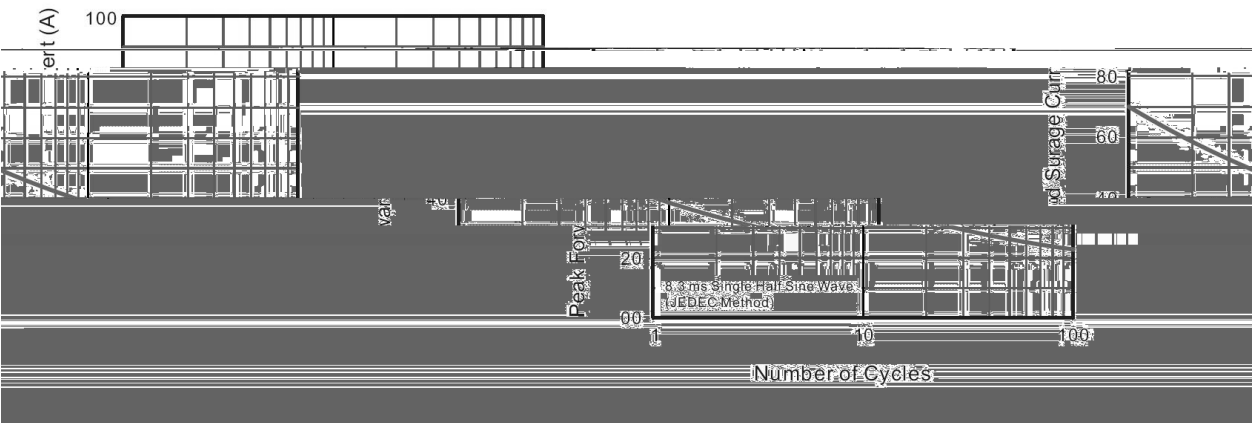
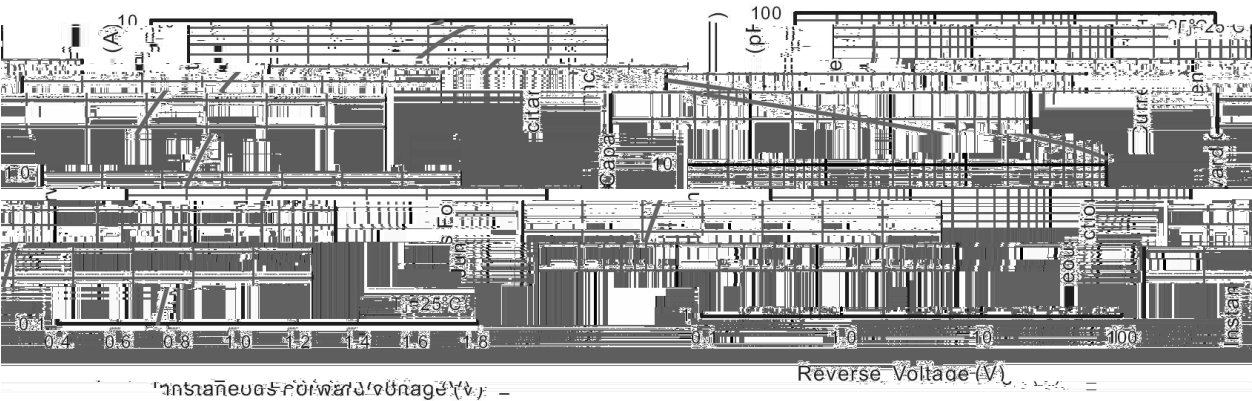
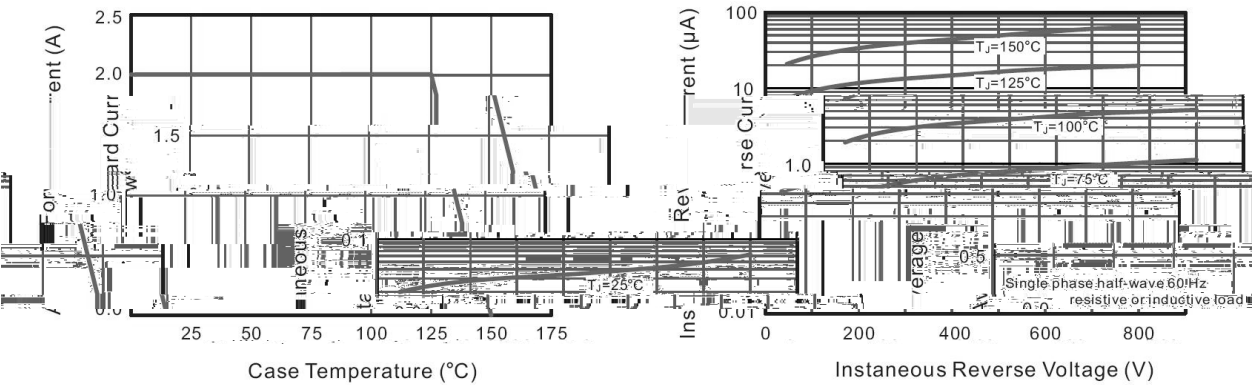
Parameter	Symbol	Rating							Unit
		BRS2AQ	BRS2BQ	BRS2DQ	BRS2GQ	BRS2JQ	BRS2KQ	BRS2MQ	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average 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_{JA}	65							/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150							

Note:

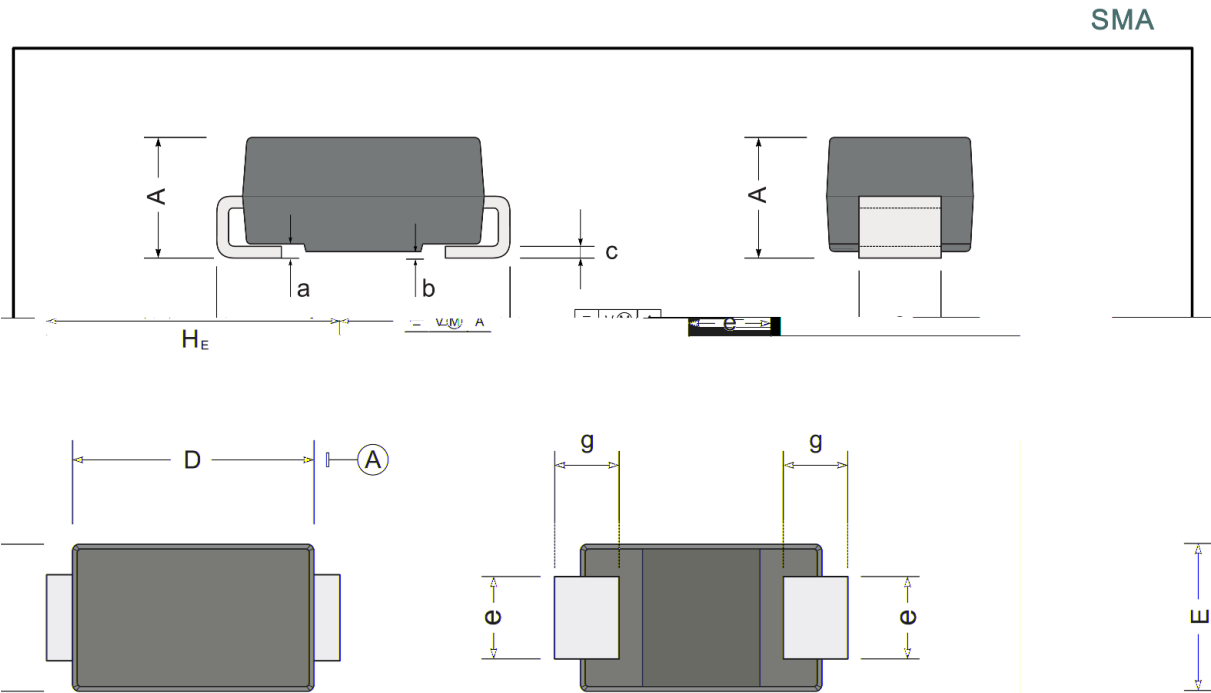
1 P.C.B. mounted with 2.0 X 2.0" (5 X5cm) copper pad areas.

Parameter	Symbol	Test Conditions	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	$T_a=25$ $T_a=125$	5.0							A

/ Electrical Characteristic Curve

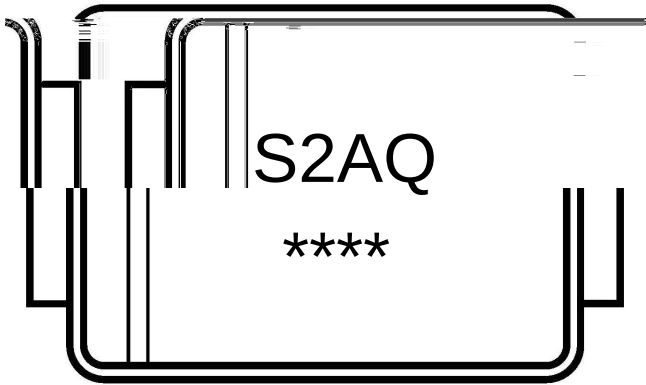


/ Package Dimensions



	A	D	E	HE	c	e	g	b	a	UNIT
max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.2	0.3	mm
min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	0.05		
mil	max 87	181	106	205	12	63	59	7.9	12	
	min 75	157	91	185	6	51	35	2		

/ Marking Instructions



S2A
Q

Note:

S2A Product Type Code

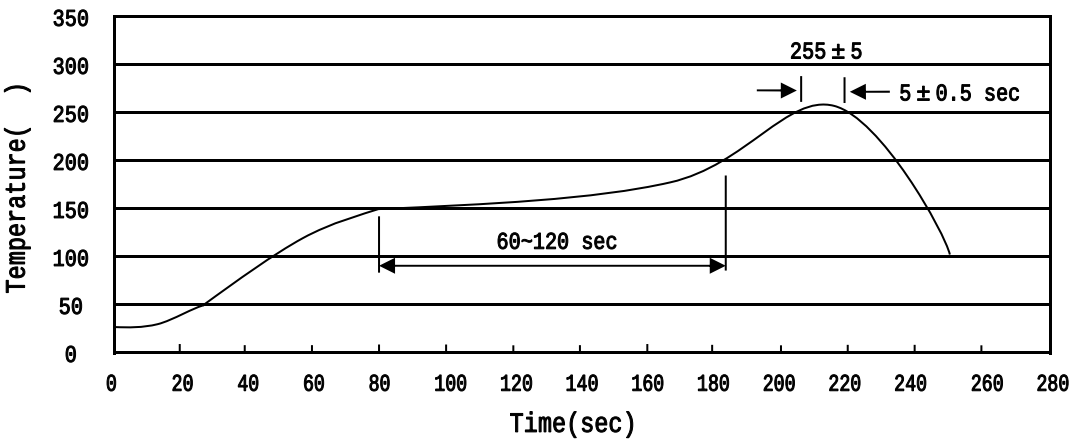
Q: Automobile halogen-free product Code

**** 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: mm³)		
	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