

BRDS22WQ~BRDS220WQ

Rev.A Aug.-2024



DATA SHEET

Parameter	Symbol	Rating								Unit
		BRDS22WQ	BRDS24WQ	BRDS26WQ	BRDS28WQ	BRDS210WQ	BRDS212WQ	BRDS215WQ	BRDS220WQ	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F AV}	2.0								A
Peak Forward Surge Current,8.3ms Single Half ine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50				40				A
Typical Junction Capacitance ¹	C _i	220		80						pF
Operating Junction Temperature Range	T _j	-55~+125								
Storage Temperature Range	T _{stg}	-55~+150								

Note:

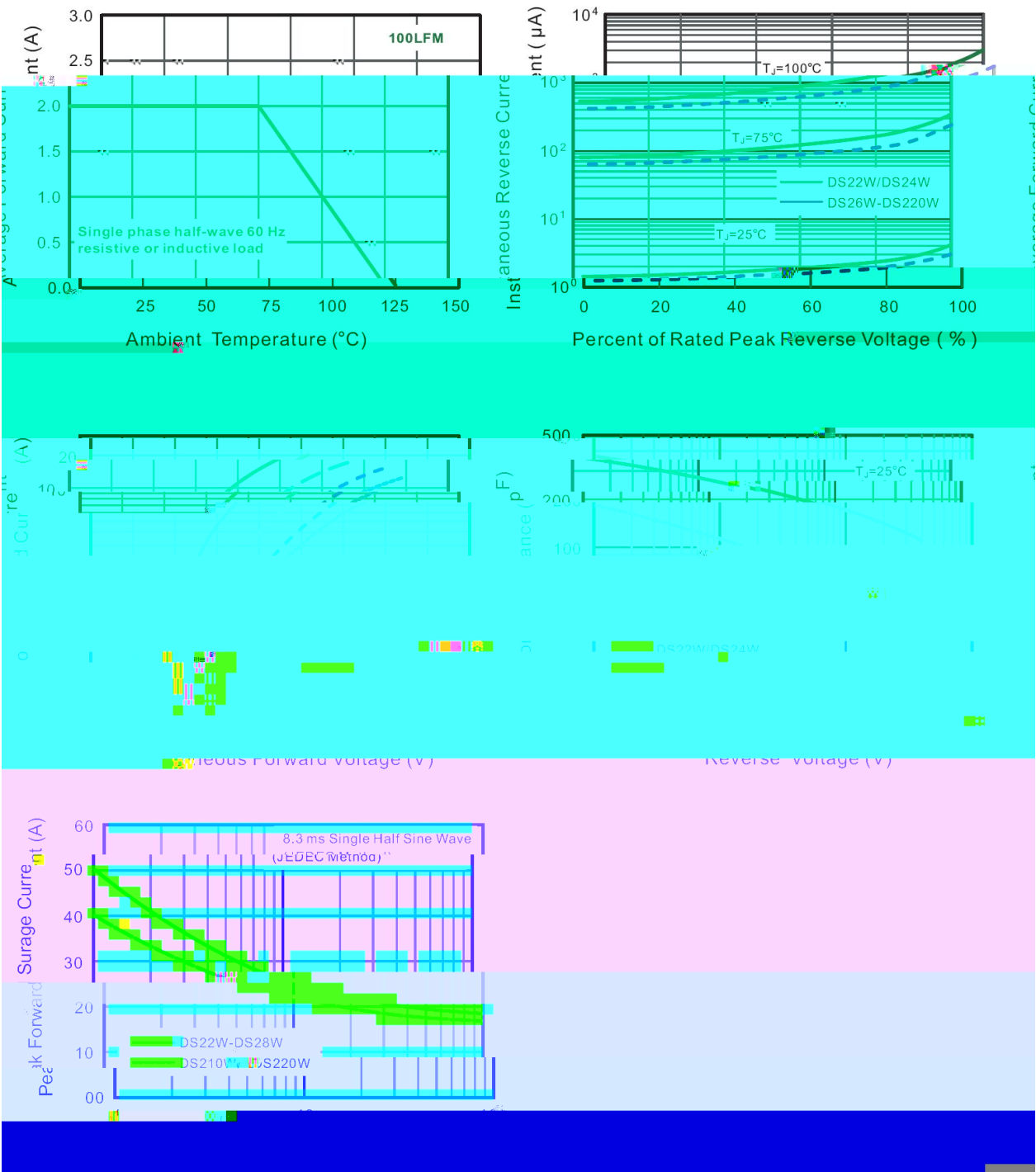
1 Measured at 1MHz and applied reverse voltage of 4 V D.C.

Parameter	Symbol	Test Conditions	Rating								Unit
			BRDS22WQ	BRDS24WQ	BRDS26WQ	BRDS28WQ	BRDS210WQ	BRDS212WQ	BRDS215WQ	BRDS220WQ	
Max Instantaneous Forward Voltage	V_F	$I_F=2.0A$	0.55	0.70	0.85	0.95					V

Maximum DC Reverse Current at Rated DC Reverse Voltage

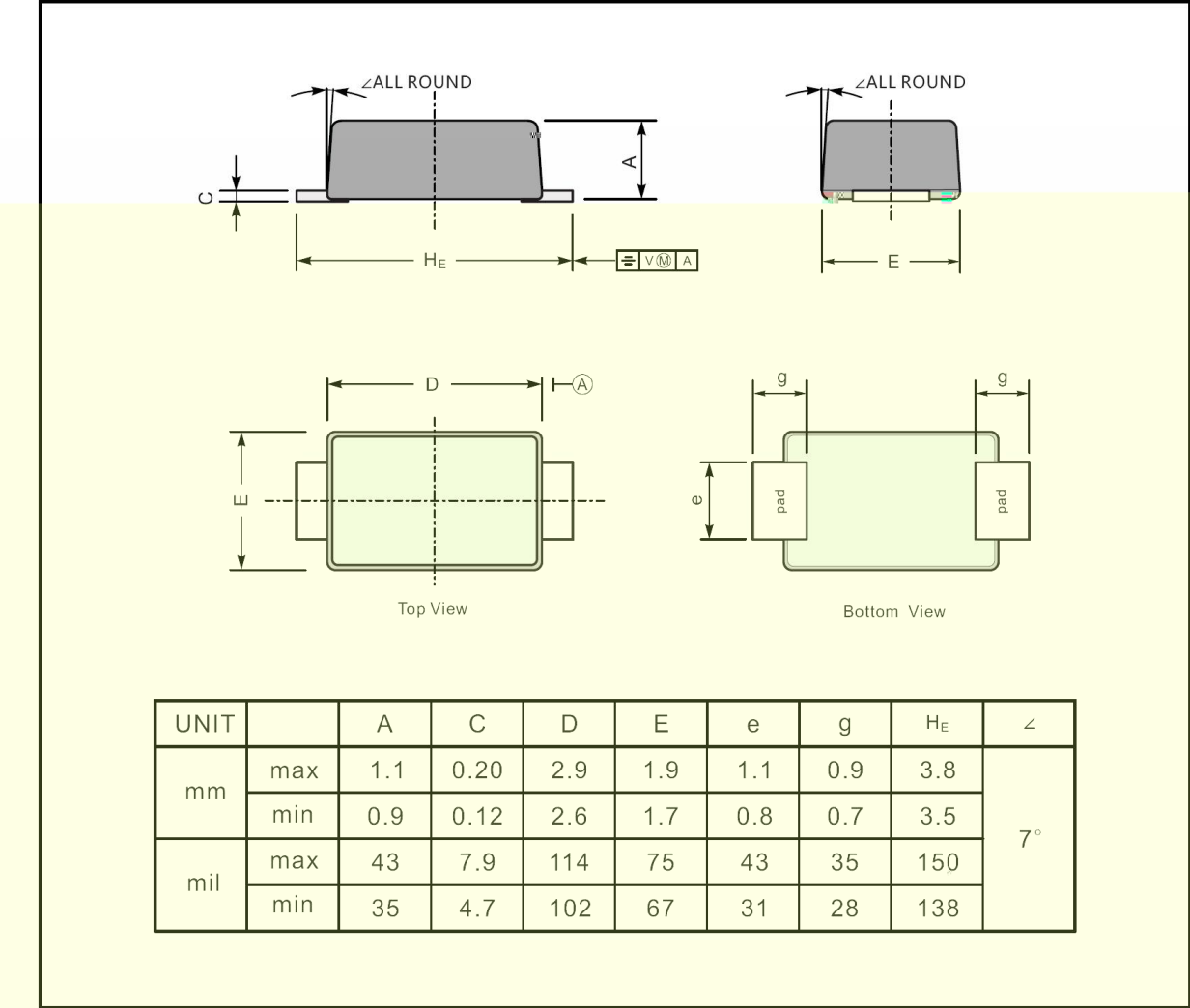
I_R TR

/ Electrical Characteristic Curve



/ Package Dimensions

SOD-123FL



/ Marking Instructions



S22

Q

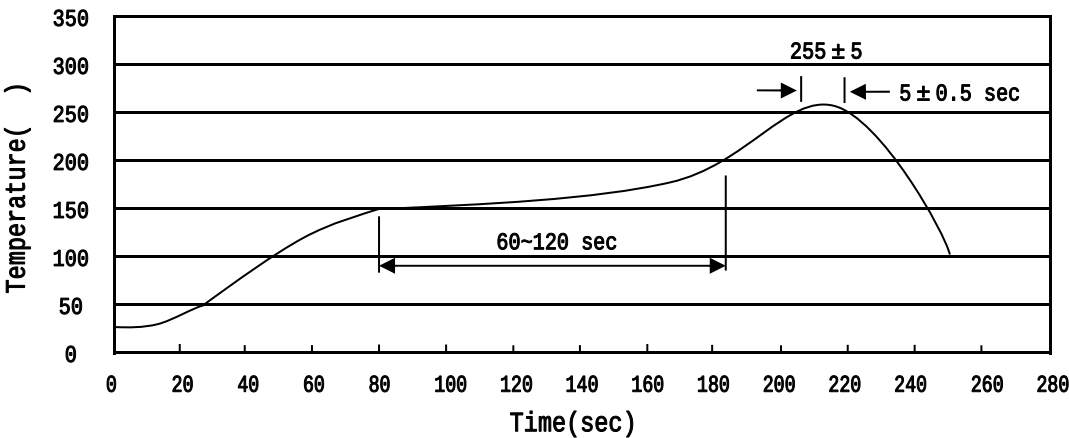
Note:

- S22Product Type Code
- Q:Automobile halogen-free product Code
- ****Lot No. Code, code change with Lot No

Marking

Type number	Marking code
BRDS22WQ	S22Q
BRDS24WQ	S24Q
BRDS26WQ	S26Q
BRDS28WQ	S28Q
BRDS210WQ	S210Q
BRDS212WQ	S212Q
BRDS215WQ	S215Q
BRDS220WQ	S220Q

() / 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)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱
SOD-123FL	3,000	8	24,000	6	144,000	7 ×8	185×180×105	390×385×205

/ Notices