



# 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 sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	50				40				A
Typical Junction Capacitance <sup>1</sup>	$C_i$	220		80						pF
Operating Junction Temperature Range	$T_j$	-55~+125								
Storage Temperature Range	$T_{stg}$	-55~+150								

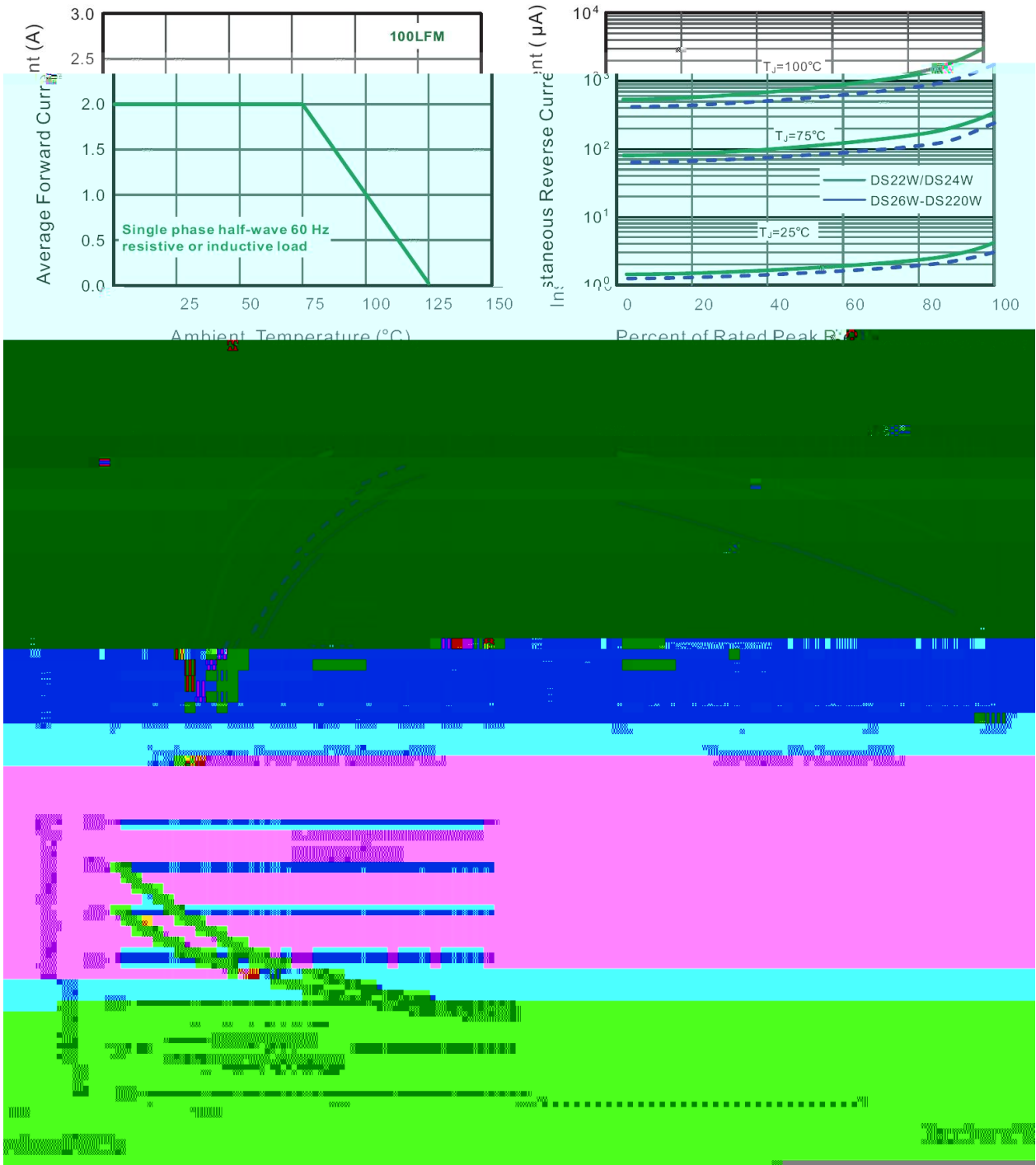
Note:

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

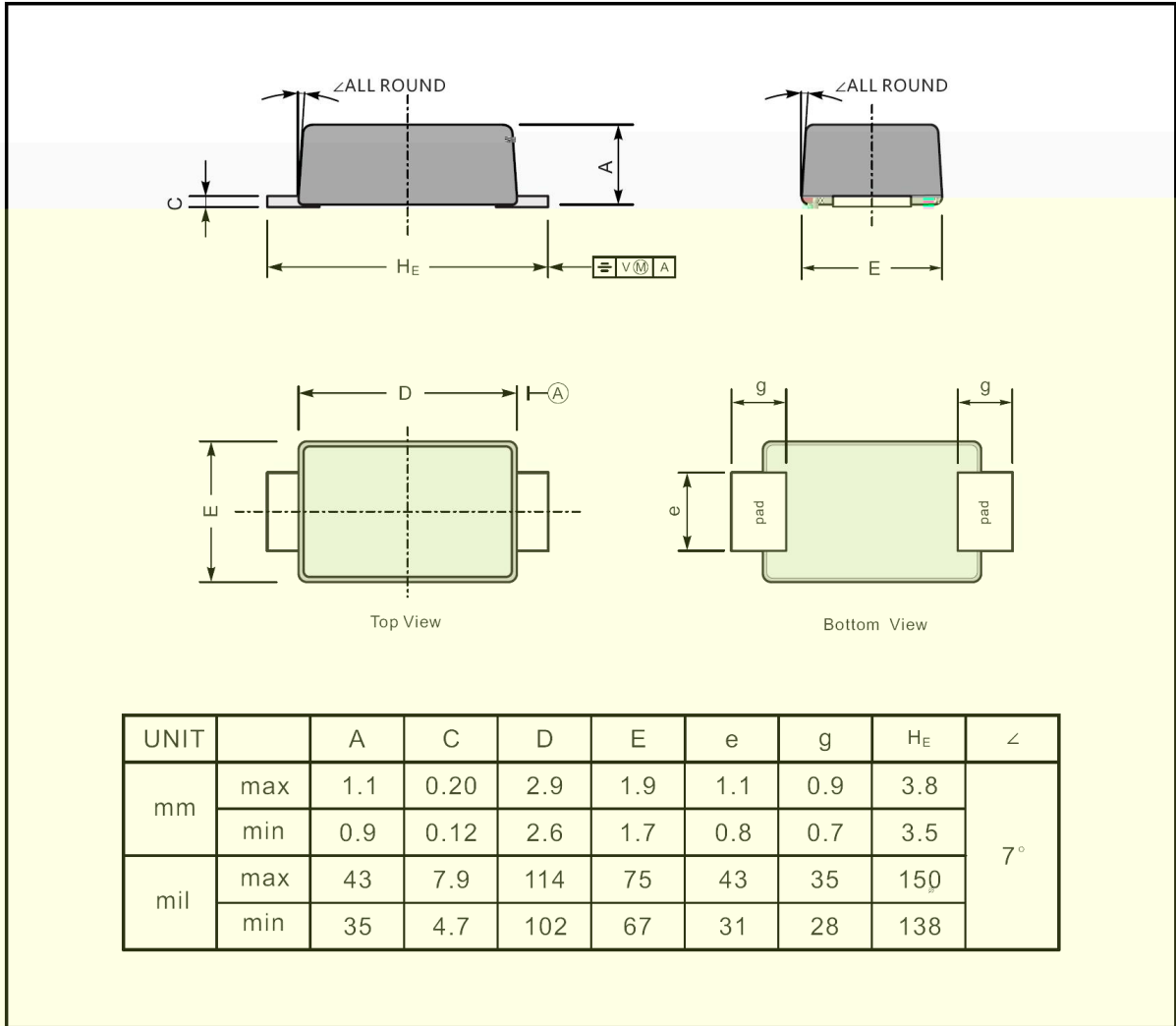
Maximum DC Reverse Current at Rated DC Reverse Voltage  
 $I_R$  T

/ **Electrical Characteristic Curve**

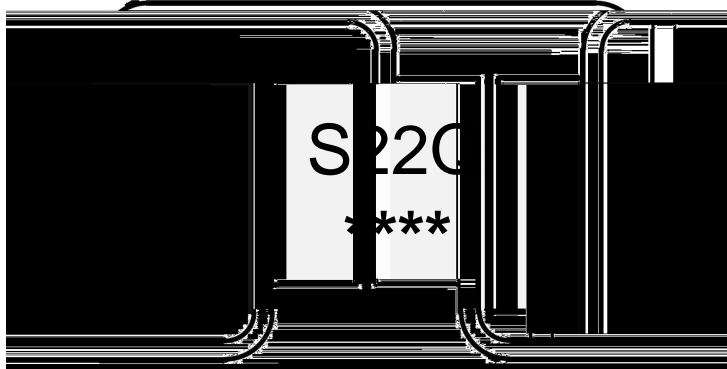


**/ Package Dimensions**

SOD-123FL



**/ Marking Instructions**



S22

Q

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Note:

S22      Product Type Code

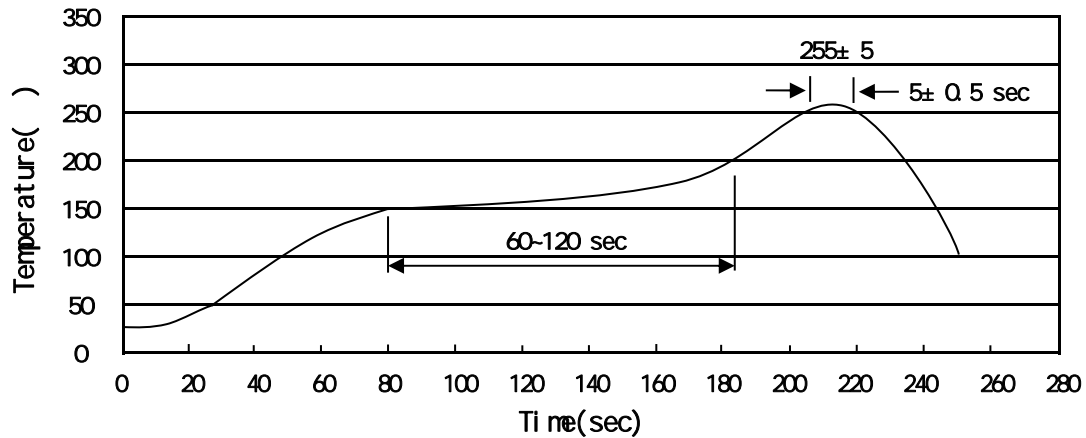
Q:        Automobile halogen-free product Code

\*\*\*\*     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 <sup>3</sup> )		
	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 x8	185x180x105	390x385x205

/ Notices