

/ Descriptions

Surface Mount Schottky Barrier Rectifier Reverse Voltage 20 to 200 V Forward Current 2.0A
SOD-123FL thin package.

/ Features

Low power loss high efficiency,High forward surge current capability,For use in low voltage,high frequency inverters,and polarity protection applications,For surface mounted applications, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

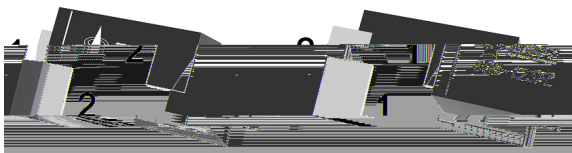
/ Applications

General purpose, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit

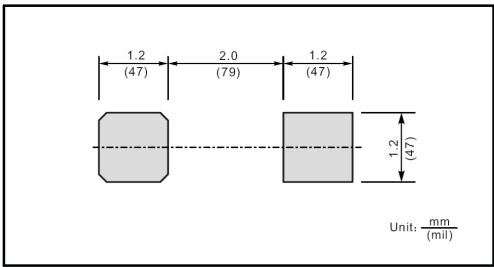


/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

BRDS22WQ~BRDS220WQ

Rev.A Aug.-2024

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

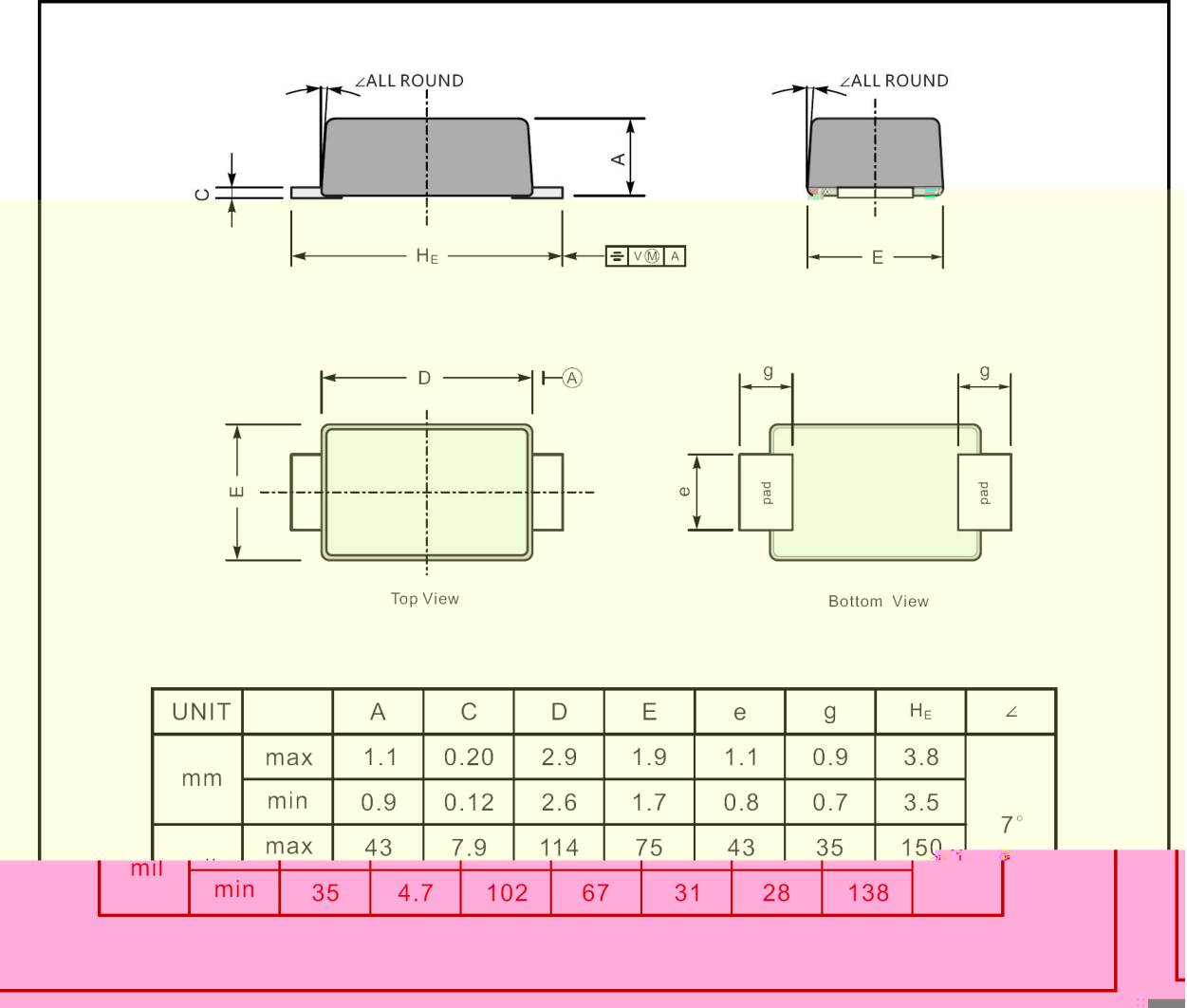
I_R T

/ Electrical Characteristic Curve



/ Package Dimensions

SOD-123FL



/ Marking Instructions



Note:

Product Type Code

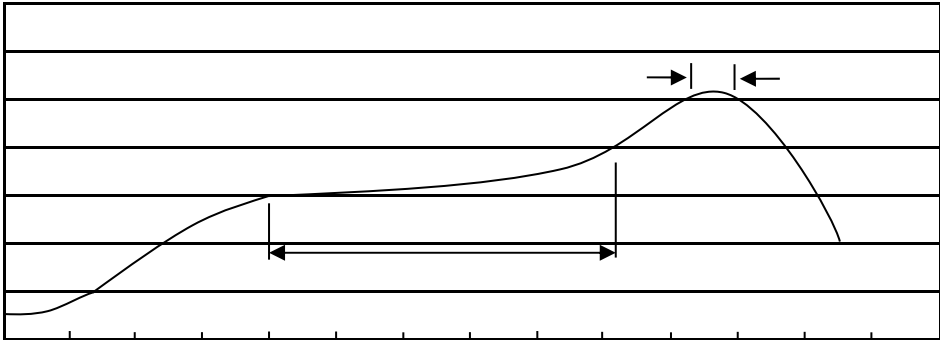
Q: Automobile halogen-free product Code

**** 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

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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
SOD-123FL	3,000	8	24,000	6	144,000	7 ×8	185×180×105	390×385×205

/ Notices