

/ Descriptions

SOD-123
Schottky Diode in a SOD-123 Plastic Package.

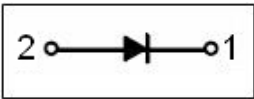
/ Features

Low positive pressure drop, can ignore the reverse recovery time, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

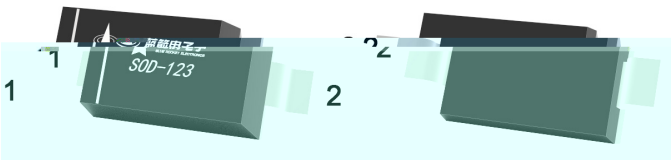
/ Applications

General purpose, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1:Cathode PIN2:Anode

/ Marking

Model	BRSD103AWQ	BRSD103BWQ	BRSD103CWQ
Marking	QS4	QS5	QS6

BRSD103AWQ/BWQ/CWQ

Rev.A Nov.-2024

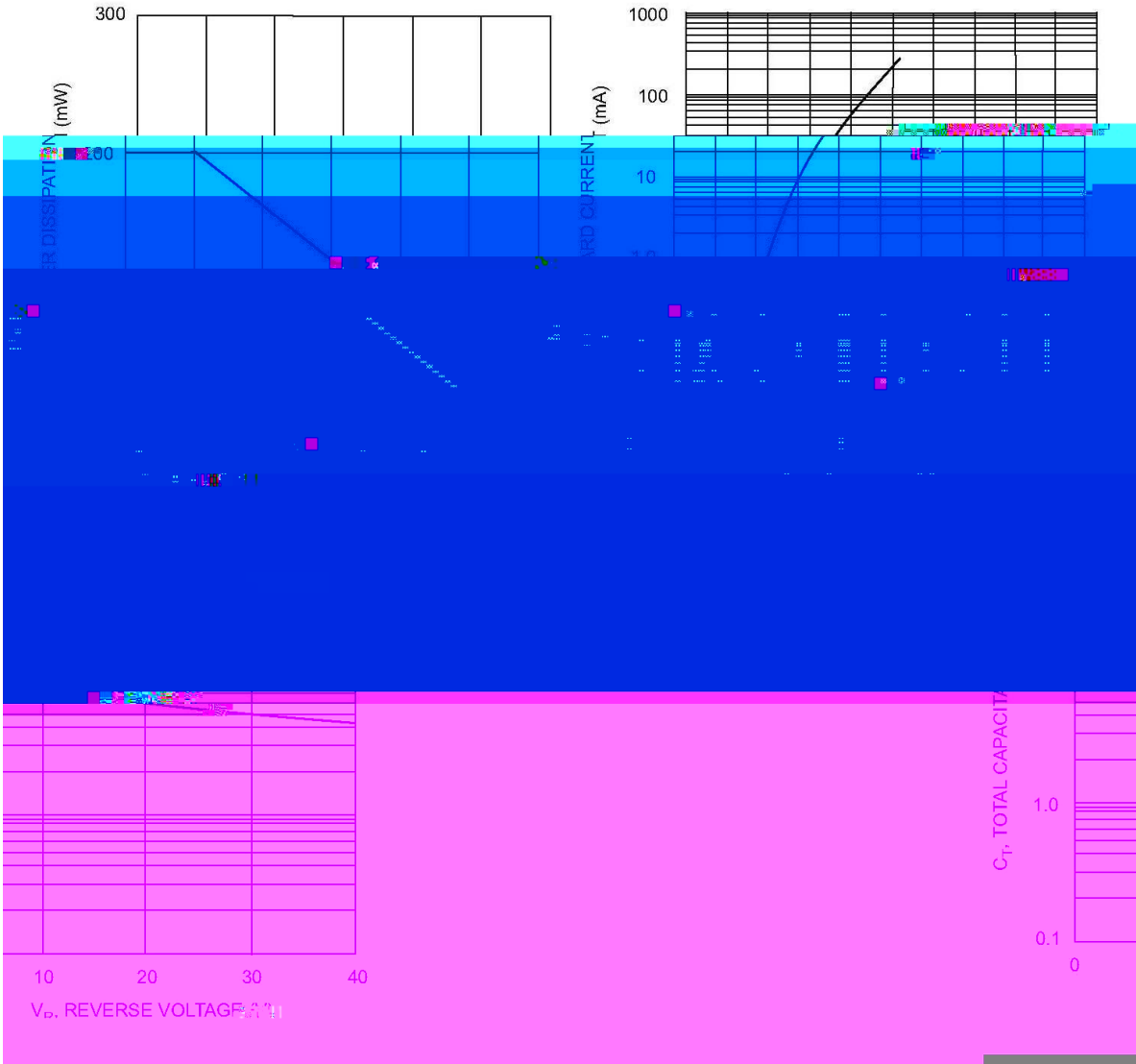


DATA SHEET

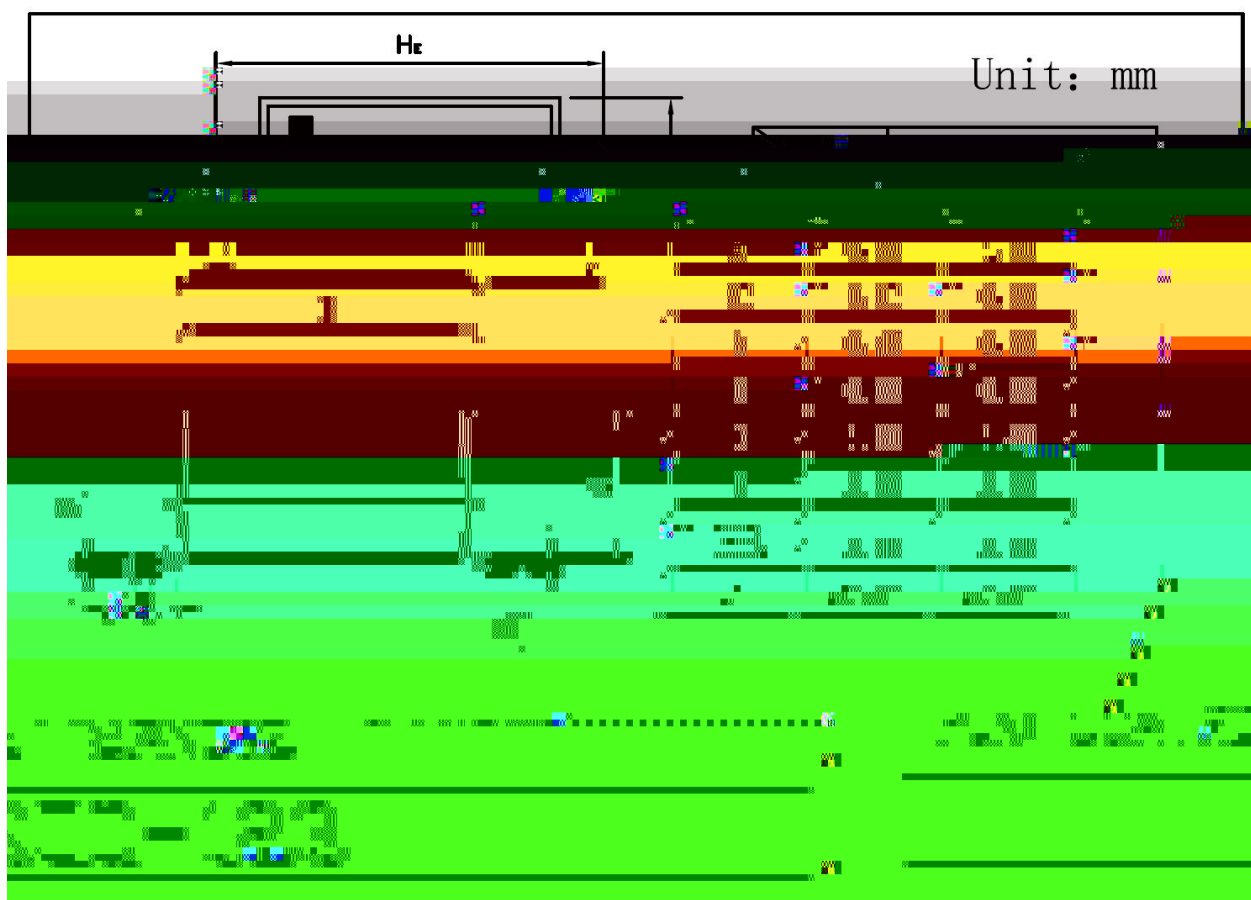
Parameter	Symbol	Rating			Unit
		BRSD103AWQ	BRSD103BWQ	BRSD103CWQ	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_R V_{RRM} V_{RWM}	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Non-Repetitive Peak Forward Current	I_{FM}	350			mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	1.5			A
Power Dissipation	P_D	400			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	300			/W
Junction and Storage Temperature Range	T_j, T_{STG}	-65 125			

Parameter		Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Breakdown Voltage		$V_{(BR)R}$	$I_R=100\mu A$	V_R			V
Peak Forward Voltage		V_{FM}	$I_F=20mA$			0.37	
			$I_F=200mA$			0.6	
Peak Reverse Current	BRSD103AWQ	I_{RM}	$V_R=30V$				μA
	BRSD103BWQ		$V_R=20V$			5	

/ Electrical Characteristic Curve



/ Package Dimensions





/ Marking Instructions

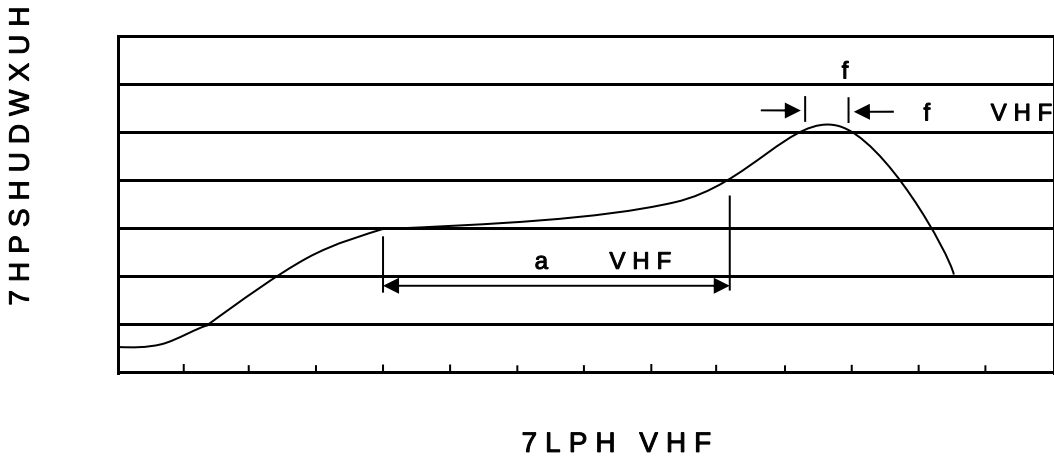


Note:

Q: Automobile halogen-free product Code

S5: Product Type Code

() / 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 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOD-123	3,000	10	30,000	6	180,000	7s ×8	180×120×180	390×385×205

/ Notices