

5 é / Descriptions

SOD-123 .> // x l 9 8 â 'ož

Zener Diode in a SOD-123 Plastic Package.

□ª / Features

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500mW power dissipation, medium current, automated assembly processes, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Đ ÷ / Applications

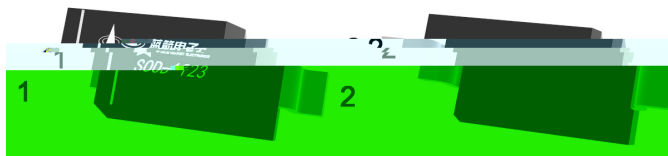
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2.4V to 39V wide zener voltage range applications, Meet the stringent requirements of automotive applications.

Ã W] Ô · / Equivalent Circuit



• Ô - æ / Pinning



PIN1:Cathode

PIN2:Anode

, M V / Marking

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See Marking Instructions.

1 Absolute Maximum Ratings(Ta=25 ;)

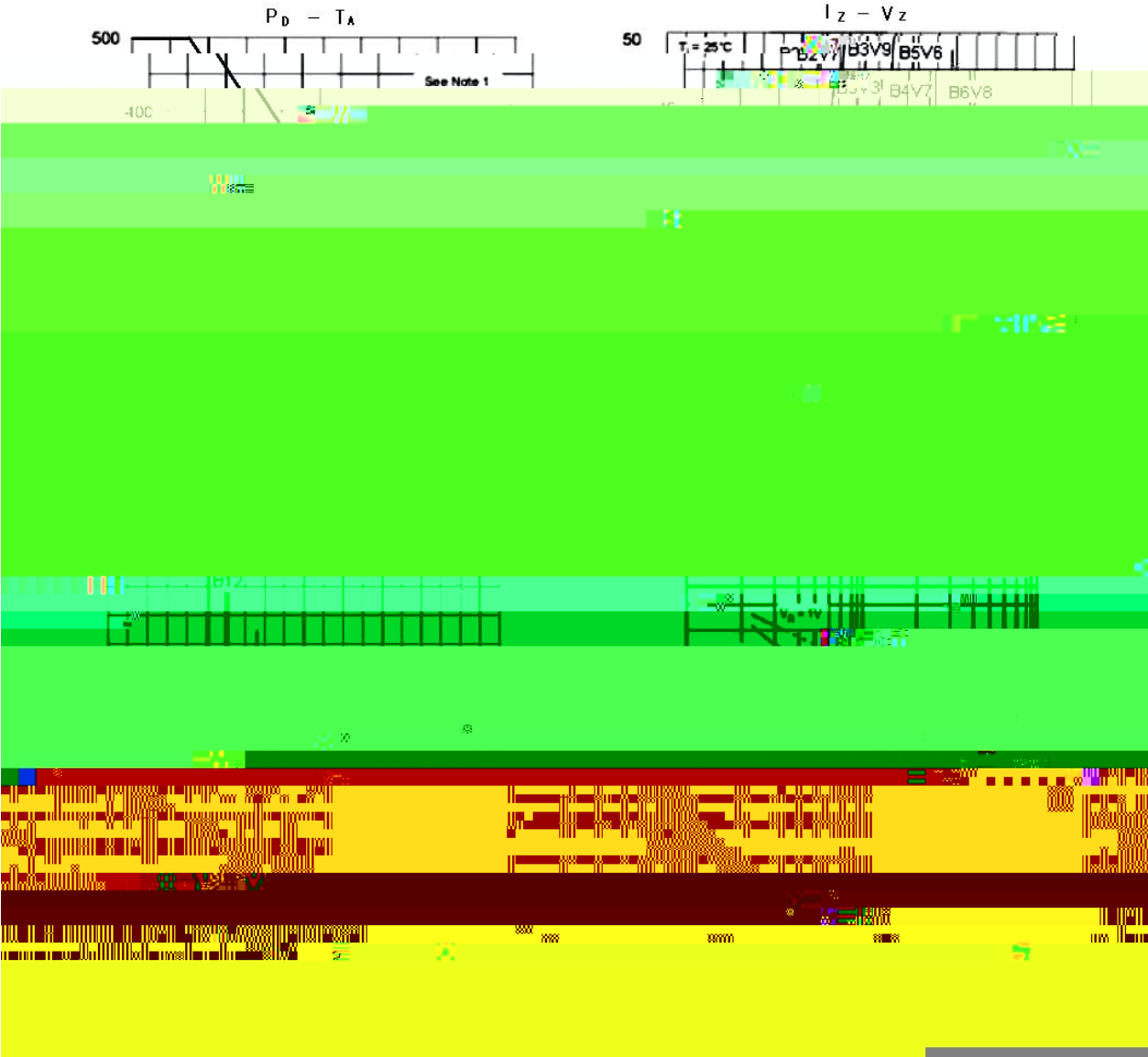
@ f Parameter	... Z Symbol	f > Rating	% y Unit
Forward Voltage (Note 2) IF=10mA	V _F	0.9	V
Power Dissipation(Note 1)	P _D	500	mW
Typical Thermal Resistance Junction to Ambient(Note 1)	R _{JA}	305	/W
Junction and Storage Temperature Range	T _J , T _{stg}	-65 150	

2 Electrical Characteristics(Ta=25 ;)

Type Number	Marking Code	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current	
		V _Z @I _{ZT}			I _{ZT}	Z _{VT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R	@V _R
		Nom (V)	Min (V)	Max (V)	mA			mA	A	V
BRBZT52B2V4Q	Q0Z	2.4	2.35	2.45	5	94	564	1	45	1
BRBZT52B2V7Q	Q1Z	2.7	2.65	2.75	5	94	564	1	18	1
BRBZT52B3V0Q	Q2Z	3.0	2.94	3.06	5	89	564	1	9	1
BRBZT52B3V3Q	Q3Z	3.3	3.23	3.37	5	89	564	1	4.5	1
BRBZT52B3V6Q	Q4Z	3.6	3.53	3.67	5	84	564	1	4.5	1
BRBZT52B3V9Q	Q5Z	3.9	3.82	3.96	5	84	564	1	2.7	1
BRBZT52B4V3Q	Q6Z	4.3	4.21	4.39	5	84	564	1	2.7	1
BRBZT52B4V7Q	Q7Z	4.7	4.61	4.79	5	75	564	1	2.7	2
BRBZT52B5V1Q	Q8Z	5.1	5.00	5.20	5	56	470	1	1.8	2
BRBZT52B5V6Q	Q9Z	5.6	5.49	5.71	5	27	451	1	0.9	2
BRBZT52B6V2Q	QAZ	6.2	6.08	6.32	5	9	376	1	2.7	4
BRBZT52B6V8Q	QBZ	6.8	6.66	6.94	5	14	141	1	1.8	4
BRBZT52B7V5Q	QCZ	7.5	7.35	7.65	5	14	75	1	0.9	5
BRBZT52B8V2Q	QDZ	8.2	8.04	8.36	5	14	75	1	0.63	5
BRBZT52B9V1Q	QEZ	9.1	8.92	9.28	5	14	94	1	0.45	6
BRBZT52B10Q	QFZ	10	9.80	10.20	5	18	141	1	0.18	7
BRBZT52B11Q	QGZ	11	10.78	11.22	5	18	141	1	0.09	8

BRBZT52BXXXQ

Electrical Characteristic Curve



BRBZT52BXXXQ

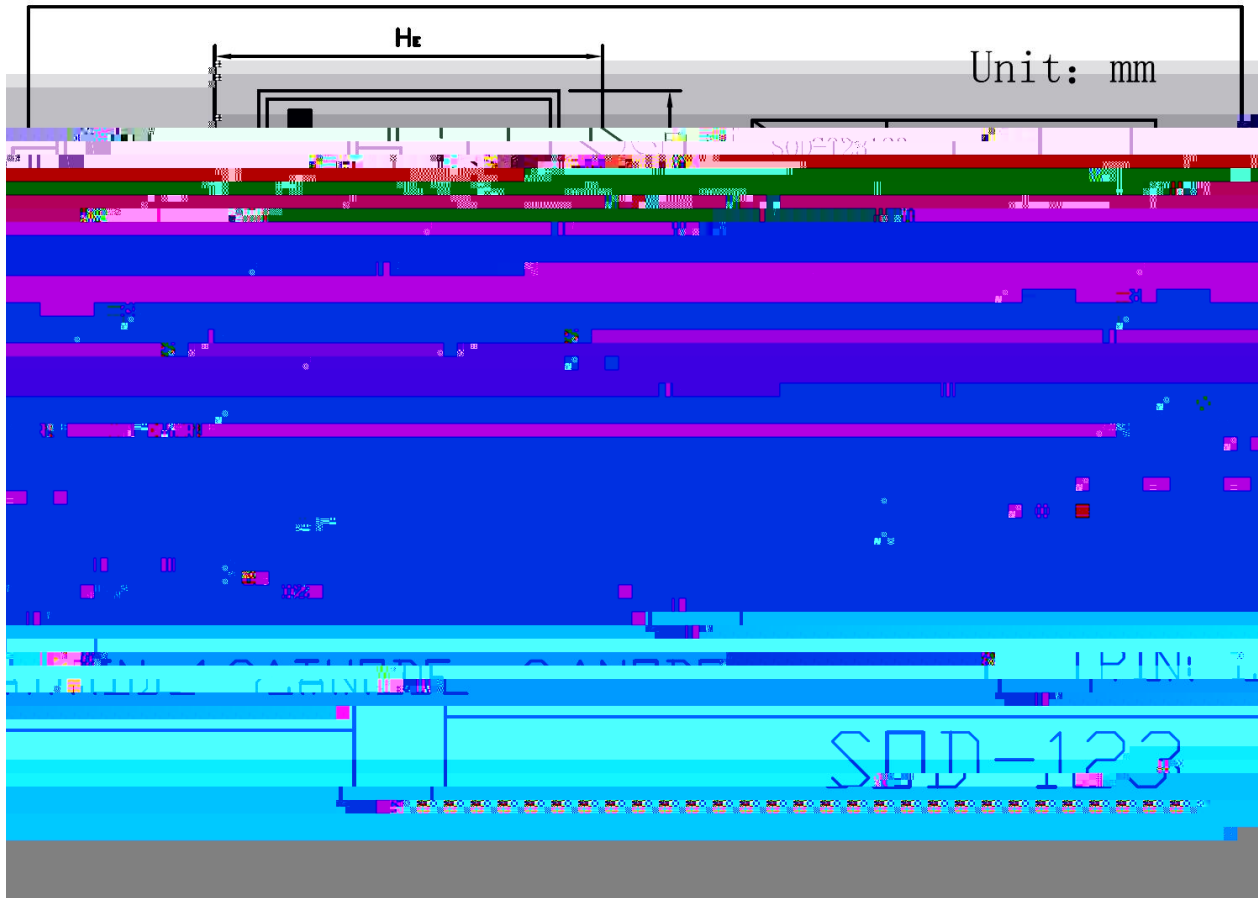
Rev.B Jan.-2024



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

Ø □ =) ☎ / Package Dimensions



, M y f / Marking Instructions



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Note:

Q: Automobile halogen-free product Code

0Z: Product Type Code

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- ačy

10•Ä½“† 150½200 - kž• 60½120sec;

20•Q>“† 255 r5 - kž•4 Ò 5 r0.5sec;

30•D Nò i Ò 0 ,† 2½10 - /sec.
- Note:

1.Preheating:150~200 - , Time:60~120sec.

2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

3.Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“†y 260 r5 - ž•y 10 r1 sec. Temp.:260 r5 - Time:10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit /Æmm³)		
	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	7 s ×8	180×120×180	390×385×205

„Đ y f / Notices