

Low-current voltage regulator diodes Rev. 2 — 17 July 2024

Product data sheet

1. General description

Low-current voltage regulator diodes in an ultra small SOD882BD (DFN1006BD-2) leadless Surface-Mounted Device (SMD) plastic package with side-wettable flanks.

2. Features and benefits

- Total power dissipation: ≤ 365 mW
- Two tolerance series: ± 2 % and approximately ± 5 %
- Working voltage range: nominal 1.8 V to 51 V
- Specified at a low test current (50 µA), ideal for low bias and portable battery-powered applications
- BZX8850S-B11-Q to -C51-Q: Intentional minor rise of leakage current for optimized fast switching and noise reduction [AN90031]
- Qualified according to AEC-Q101 and recommended for use in automotive applications

3. Applications

Low-current general regulation functions •

4. Quick reference data

Table 1. Quick reference data

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|------------------|-------------------------|----------------------------------|-----|-----|-----|------|
| V _F | forward voltage | I _F = 10 mA [1] | - | - | 0.9 | V |
| P _{tot} | total power dissipation | $T_{amb} \le 25 \ ^{\circ}C$ [2] | - | - | 365 | mW |

Pulse test: $t_p \le 300 \ \mu s$; $\delta \le 0.02$ [1]

Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint. [2]

5. Pinning information

| Table 2. | Table 2. Pinning | | | | | | | | |
|----------|------------------|-------------|-------------------------|----------------|--|--|--|--|--|
| Pin | Symbol | Description | Simplified outline | Graphic symbol | | | | | |
| 1 | К | cathode[1] | | | | | | | |
| 2 | A | anode | Transparent top view | 006aaa152 | | | | | |

[1] The marking bar indicates the cathode.



6. Ordering information

| Type number | Package | | | | | | |
|-------------------|-------------|---|----------|--|--|--|--|
| | Name | Description | Version | | | | |
| BZX8850S-Q series | DFN1006BD-2 | Leadless ultra small plastic package with side- wettable flanks (SWF): 2 terminals; 0.65 mm pitch; 1 mm x 0.6 mm x 0.47 mm body | SOD882BD | | | | |

7. Marking

| Table 4. Marking Co | | | | | | | |
|---------------------|---------------|----------------|---------------|-----------------|---------------|----------------|---------------|
| Type number | Mark. code | Type number | Mark. code | Type number | Mark. code | Type number | Mark. code |
| BZX8850S-B1V8-Q | NJ | BZX8850S-B10-Q | P4 | BZX8850S-C1V8-Q | 5N | BZX8850S-C10-Q | 7G |
| BZX8850S-B2V0-Q | NK | BZX8850S-B11-Q | P5 | BZX8850S-C2V0-Q | 5P | BZX8850S-C11-Q | 7H |
| BZX8850S-B2V2-Q | NL | BZX8850S-B12-Q | P6 | BZX8850S-C2V2-Q | 5Q | BZX8850S-C12-Q | 7J |
| BZX8850S-B2V4-Q | NM | BZX8850S-B13-Q | P7 | BZX8850S-C2V4-Q | 5R | BZX8850S-C13-Q | 7K |
| BZX8850S-B2V7-Q | NP | BZX8850S-B15-Q | P8 | BZX8850S-C2V7-Q | 5S | BZX8850S-C15-Q | 7M |
| BZX8850S-B3V0-Q | NQ | BZX8850S-B16-Q | P9 | BZX8850S-C3V0-Q | 5T | BZX8850S-C16-Q | 7N |
| BZX8850S-B3V3-Q | NR | BZX8850S-B18-Q | SW | BZX8850S-C3V3 | 5U | BZX8850S-C18-Q | 7P |
| BZX8850S-B3V6-Q | NS | BZX8850S-B20-Q | SX | BZX8850S-C3V6-Q | 5V | BZX8850S-C20-Q | 7Q |
| BZX8850S-B3V9-Q | NT | BZX8850S-B22-Q | SY | BZX8850S-C3V9-Q | 5W | BZX8850S-C22-Q | 7R |
| BZX8850S-B4V3-Q | NU | BZX8850S-B24-Q | SZ | BZX8850S-C4V3-Q | 5X | BZX8850S-C24-Q | 7S |
| BZX8850S-B4V7-Q | NV | BZX8850S-B27-Q | T1 | BZX8850S-C4V7-Q | 5Y | BZX8850S-C27-Q | 7T |
| BZX8850S-B5V1-Q | NW | BZX8850S-B30-Q | T2 | BZX8850S-C5V1-Q | 5Z | BZX8850S-C30-Q | 7U |
| BZX8850S-B5V6-Q | NX | BZX8850S-B33-Q | Т3 | BZX8850S-C5V6-Q | 7A | BZX8850S-C33-Q | 7V |
| BZX8850S-B6V2-Q | NY | BZX8850S-B36-Q | T4 | BZX8850S-C6V2-Q | 7B | BZX8850S-C36-Q | 7W |
| BZX8850S-B6V8-Q | NZ | BZX8850S-B39-Q | T5 | BZX8850S-C6V8-Q | 7C | BZX8850S-C39-Q | 7X |
| BZX8850S-B7V5-Q | P1 | BZX8850S-B43-Q | Т6 | BZX8850S-C7V5-Q | 7D | BZX8850S-C43-Q | 7Y |
| BZX8850S-B8V2-Q | P2 | BZX8850S-B47-Q | T7 | BZX8850S-C8V2-Q | 7E | BZX8850S-C47-Q | 7Z |
| BZX8850S-B9V1-Q | P3 | BZX8850S-B51-Q | Т8 | BZX8850S-C9V1-Q | 7F | BZX8850S-C51-Q | 8A |

8. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

| Symbol | Parameter | Conditions | | Min | Max | Unit |
|------------------|---|---|-----|-----|------|------|
| I _F | forward current | | | - | 200 | mA |
| P _{ZSM} | non-repetitive peak reverse power dissipation | t _p = 100 μs; square wave; T _j = 25 °C; prior to surge | | - | 40 | W |
| P _{tot} | total power dissipation | T _{amb} ≤ 25 °C | [1] | - | 365 | mW |
| Тj | junction temperature | | | - | 150 | °C |
| T _{amb} | ambient temperature | | | -55 | +150 | °C |
| T _{stg} | storage temperature | | | -65 | +150 | °C |

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single sided copper, tin-plated and standard footprint.

9. Thermal characteristics

| | able 6. Thermal characteristics | | | | | | | |
|----------------------|---|-------------|-----|-----|-----|-----|------|--|
| Symbol | Parameter | Conditions | | Min | Тур | Мах | Unit | |
| R _{th(j-a)} | thermal resistance from junction to ambient | in free air | [1] | - | - | 340 | K/W | |

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single sided copper, tin-plated and standard footprint.

10. Characteristics

Table 7. Electrical characteristics

 T_i = 25 °C unless otherwise specified.

| Symbol | Parameter | Conditions | | Мах | Unit |
|----------------|-----------------|------------------------|-----|-----|------|
| V _F | forward voltage | I _F = 10 mA | [1] | 0.9 | V |

[1] Pulse test: $t_p \le 300 \ \mu s$; $\delta \le 0.02$

Low-current voltage regulator diodes

Table 8. Electrical characteristics per type: BZX8850S-B1V8-Q to BZX8850S-C36-Q

$T_i = 25$ °C unless otherwise specified.

| BZX8850S- xxx-Q | Sel. | V _Z (V) I _Z = 50 μA | | res | erential istance liff (Ω) | | Reverse current I _R (μΑ) | | perature efficient (mV/K) | Diode capacitance C _d (pF) | |
|--------------------|------|--|-------|----------------------|---------------------------------|-----|--|------|---------------------------------|---|--|
| | | | | I <u>Z</u> = 1 mA | I <u>Z</u> = 5 mA | | | ١z | = 5 mA | f = 1 MHz V _R = 0 V | |
| | | Min | Мах | Max | Max | Max | V _R (V) | Min | Max | Max | |
| 1V8 | В | 1.76 | 1.84 | 600 | 100 | 7.5 | 1.0 | -3.5 | 0 | 220 | |
| | С | 1.71 | 1.89 | - | | | | | | | |
| 2V0 | В | 1.96 | 2.04 | 600 | 100 | 7 | 1.0 | -3.5 | 0 | 220 | |
| | С | 1.88 | 2.12 | - | | | | | | | |
| 2V2 | В | 2.15 | 2.25 | 600 | 100 | 4 | 1.0 | -3.5 | 0 | 210 | |
| | С | 2.09 | 2.31 | | | | | | | | |
| 2V4 | В | 2.35 | 2.45 | 600 | 100 | 2 | 1.0 | -3.5 | 0 | 200 | |
| | С | 2.28 | 2.52 | 1 | | | | | | | |
| 2V7 | В | 2.65 | 2.75 | 600 | 100 | 1 | 1.0 | -3.5 | 0 | 190 | |
| | С | 2.565 | 2.835 | 1 | | | | | | | |
| 3V0 | В | 2.94 | 3.06 | 600 | 600 100 | 0.8 | 1.0 | -3.5 | 0.2 | 170 | |
| | С | 2.85 | 3.15 | 1 | | | | | | | |
| 3V3 | В | 3.23 | 3.37 | 600 | 100 | 7.5 | 1.5 | -3.5 | 1.2 | 160 | |
| | С | 3.13 | 3.47 | - | | | | | | | |
| 3V6 | В | 3.53 | 3.67 | 600 | 95 | 7.5 | 2.0 | -3.5 | 1.2 | 160 | |
| | С | 3.42 | 3.78 | | | | | | | | |
| 3V9 | В | 3.82 | 3.98 | 600 | 95 | 5.0 | 2.0 | -2.7 | 2.5 | 150 | |
| | С | 3.70 | 4.10 | - | | | | | | | |
| 4V3 | В | 4.21 | 4.39 | 600 | 95 | 4.0 | 2.0 | -2.7 | 2.5 | 150 | |
| | С | 4.09 | 4.52 | - | | | | | | | |
| 4V7 | В | 4.61 | 4.79 | 600 | 80 | 5.0 | 3.0 | -2.7 | 2.5 | 140 | |
| | С | 4.47 | 4.94 | | | | | | | | |
| 5V1 | В | 5.00 | 5.20 | 500 | 60 | 5.0 | 3.0 | -2.0 | 3.7 | 130 | |
| | С | 4.85 | 5.36 | 1 | | | | | | | |
| 5V6 | В | 5.49 | 5.71 | 400 | 40 | 2.0 | 4.0 | -2.0 | 3.7 | 120 | |
| | С | 5.32 | 5.88 | 1 | | | | | | | |
| 6V2 | В | 6.08 | 6.32 | 160 | 10 | 1.0 | 5.0 | 0.4 | 4.5 | 110 | |
| | С | 5.89 | 6.51 | 1 | | | | | | | |
| 6V8 | В | 6.66 | 6.94 | 80 | 15 | 0.1 | 5.1 | 1.2 | 4.5 | 100 | |
| | С | 6.46 | 7.14 | 1 | | | | | | | |
| 7V5 | В | 7.35 | 7.65 | 80 | 15 | 0.1 | 5.7 | 2.5 | 5.3 | 150 | |
| | С | 7.13 | 7.88 | 1 | | | | | | | |
| 8V2 | В | 8.04 | 8.36 | 80 | 15 | 0.1 | 6.2 | 3.2 | 6.2 | 150 | |
| | С | 7.79 | 8.61 | 1 | | | | | | | |
| 9V1 | В | 8.92 | 9.28 | 100 | 15 | 0.1 | 6.9 | 3.8 | 7.0 | 150 | |
| | С | 8.65 | 9.56 | 1 | | | | | | | |
| 10 | В | 9.80 | 10.20 | 150 | 20 | 0.1 | 7.6 | 4.5 | 8.0 | 90 | |
| | С | 9.50 | 10.50 | 1 | | | | | | | |

Low-current voltage regulator diodes

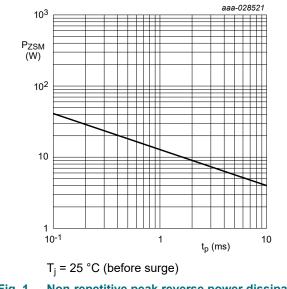
| BZX8850S- xxx-Q | Sel. | V _Z (V) | | resi | Differential resistance r _{diff} (Ω) | | Reverse current I _R (μΑ) | | perature efficient (mV/K) | Diode capacitance C _d (pF) f = 1 MHz V _R = 0 V | |
|--------------------|------|--------------------------|-------|----------------------|---|--------|--|-----------|---------------------------------|--|----|
| | | I <mark>Z</mark> = 50 μA | | I <u>Z</u> = 1 mA | l <u>z</u> = 5 mA | | | | = 5 mA | | |
| | | Min | Max | Max | Мах | Max | V _R (V) | Min | Max | Max | |
| 11 | В | 10.80 | 11.20 | 150 | 20 | 0.05 | 8.4 | 5.4 | 9.0 | 85 | |
| | С | 10.45 | 11.55 | | | | | | | | |
| 12 | В | 11.80 | 12.20 | 150 | 25 | 0.05 | 9.1 | 6.0 | 10 | 85 | |
| | С | 11.40 | 12.60 | | | | | | | | |
| 13 | В | 12.70 | 13.30 | 170 | 30 | 0.05 | 9.8 | 7.0 | 11 | 80 | |
| | С | 12.35 | 13.65 | | | | | | | | |
| 15 | В | 14.70 | 15.30 | 200 | 30 | 0.05 | 11.4 | 9.2 | 13 | 75 | |
| | С | 14.25 | 15.75 | | | | | | | | |
| 16 | В | 15.70 | 16.30 | 200 | 40 | 0.05 | 12.1 | 10.4 | 14 | 75 | |
| | С | 15.20 | 16.80 | | | | | | | | |
| 18 | В | 17.60 | 18.40 | 225 | 45 | 0.05 | 13.6 | 12.4 | 16 | 70 | |
| | С | 17.10 | 18.90 | | | | | | | | |
| 20 | В | 19.60 | 20.40 | 225 5 | 225 55 | 225 55 | 0.05 | 15.2 | 14.4 | 18 | 60 |
| | С | 19.00 | 21.00 | - | | | | | | | |
| 22 | В | 21.60 | 22.40 | 250 | 55 | 0.05 | 16.7 | 16.4 | 20 | 60 | |
| | С | 20.90 | 23.10 | - | | | | | | | |
| 24 | В | 23.50 | 24.50 | 250 | 70 | 0.05 | 18.2 | 18.4 | 22 | 55 | |
| | С | 22.80 | 25.20 | - | | | | | | | |
| 27 | В | 26.50 | 27.50 | 300 | 80 | 0.05 | 20.4 | 21.4 | 25.3 | 50 | |
| | С | 25.65 | 28.35 | - | | | | | | | |
| 30 | В | 29.40 | 30.60 | 300 | 80 | 0.05 | 22.8 | 24.4 | 29.4 | 50 | |
| | С | 28.50 | 31.50 | - | | | | | | | |
| 33 | В | 32.30 | 33.70 | 325 | 80 | 0.05 | 25.0 | 27.4 | 33.4 | 45 | |
| | С | 31.35 | 34.65 | 1 | | | | | | | |
| 36 | В | 35.30 | 36.70 | 350 | 90 | 0.05 | 0.05 27.3 | 30.4 37.4 | 45 | | |
| | С | 34.20 | 37.80 | 1 | | | | | | | |

Low-current voltage regulator diodes

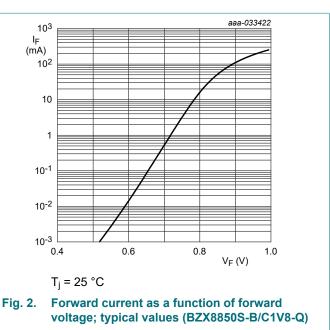
Table 9. Electrical characteristics per type: BZX8850S-B39-Q to BZX8850S-C51-Q

 T_i = 25 °C unless otherwise specified.

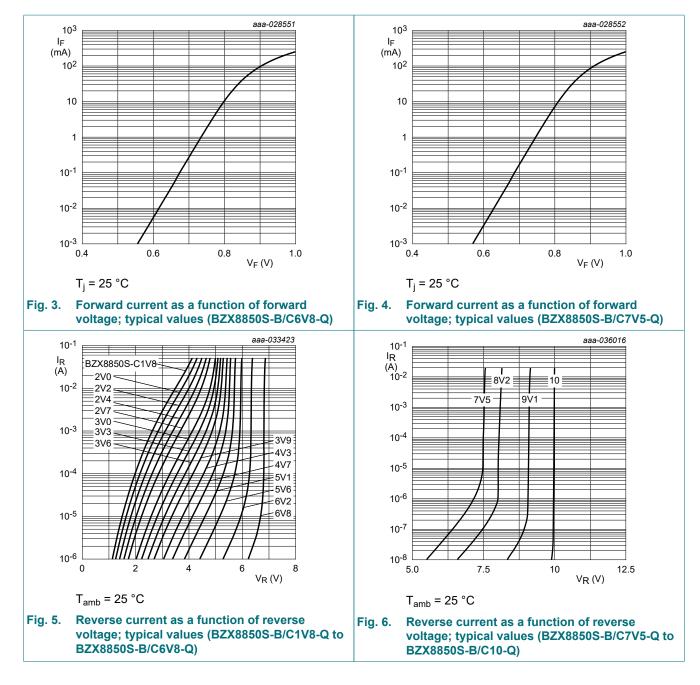
| BZX8850S- xxx-Q | | Working voltage V _Z (V) | | Differential resistance r _{diff} (Ω) | | | Reverse current I _R (μΑ) | | perature efficient (mV/K) | Diode capacitance C _d (pF) | | | | |
|--------------------|---|---------------------------------------|-------|---|--------------------------|------|--|--------------|---------------------------------|---|------|------|------|----|
| | | I _Z = 50 | μA | I _Z = 0.5 mA | I _Z = 2 mA | | - | | = 2 mA | f = 1 MHz V _R = 0 V | | | | |
| | | Min | Max | Max | Max | Max | V _R (V) | Min | Max | Мах | | | | |
| 39 | В | 38.20 | 39.80 | 350 | 350 | 350 | .80 350 | 39.80 350 13 | 130 | 0.05 | 29.6 | 33.4 | 41.2 | 45 |
| | С | 37.05 | 40.95 | | | | | | | | | | | |
| 43 | В | 42.10 | 43.90 | 375 150 | 375 150 | 0.05 | 0.05 32.6 | 37.6 46.6 | 46.6 | 40 | | | | |
| | С | 40.85 | 45.15 | | | | | | | | | | | |
| 47 | В | 46.10 | 47.90 | 375 | 170 | 0.05 | 32.9 | 42.0 | 51.8 | 40 | | | | |
| | С | 44.00 | 50.00 | | | | | | | | | | | |
| 51 | В | 50.00 | 52.00 | 400 | 180 | 0.05 | 0.05 35.7 | 46.6 57. | 57.2 | 40 | | | | |
| | С | 48.00 | 54.00 | 1 | | | | | | | | | | |



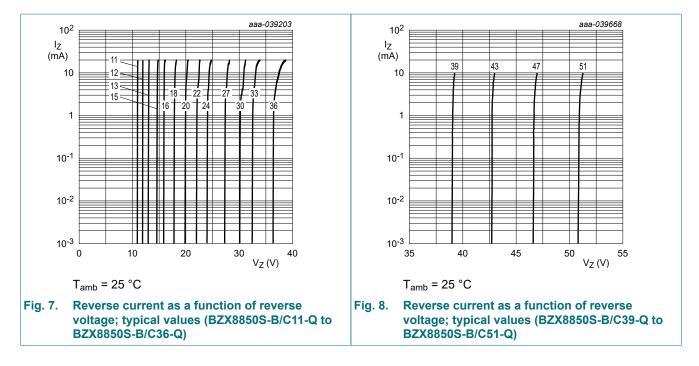




Low-current voltage regulator diodes



Low-current voltage regulator diodes

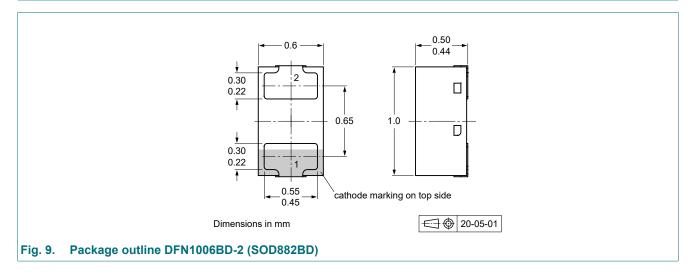


11. Test information

Quality information

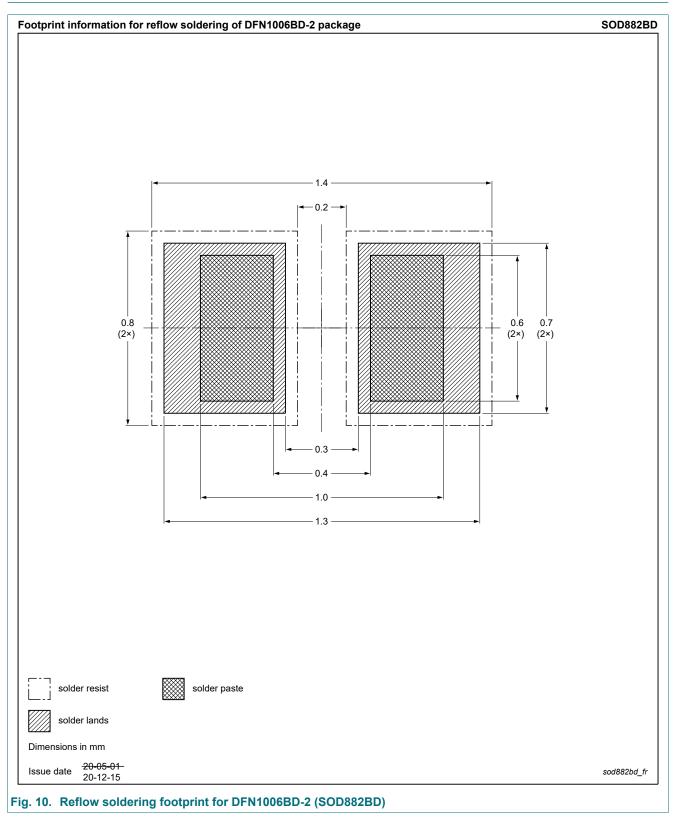
This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard *Q101* - *Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

12. Package outline



Low-current voltage regulator diodes

13. Soldering



9/12

14. Revision history

| Table 10. Revision history | | | | | | | | |
|----------------------------|--------------|--|---------------|--------------------|--|--|--|--|
| Document ID | Release date | Data sheet status | Change notice | Supersedes | | | | |
| BZX8850S-Q_SER v.2 | 20240717 | Product data sheet | - | BZX8850S-Q_SER v.1 | | | | |
| Modifications: | | Products removed BZX8850S-C56-Q and higher voltages Products added: BZX8850S-B1V8-Q to BZX8850S-B51-Q | | | | | | |
| BZX8850S-Q_SER v.1 | 20210825 | Product data sheet | - | - | | | | |

BZX8850S-Q_SER

15. Legal information

Data sheet status

| Document status [1][2] | Product status [3] | Definition |
|-----------------------------------|-----------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet | Qualification | This document contains data from the preliminary specification. |
| Product [short] data sheet | Production | This document contains the product specification. |

 Please consult the most recently issued document before initiating or completing a design.

- [2] The term 'short data sheet' is explained in section "Definitions".
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BZX8850S-C12-QYLBZX8850S-C13-QYLBZX8850S-C15-QYLBZX8850S-C16-QYLBZX8850S-C18-QYLBZX8850S-C1V8-QYLBZX8850S-C20-QYLBZX8850S-C22-QYLBZX8850S-C24-QYLBZX8850S-C27-QYLBZX8850S-C2V0-QYLBZX8850S-C2V2-QYLBZX8850S-C2V4-QYLBZX8850S-C2V7-QYLBZX8850S-C30-QYLBZX8850S-C33-QYLBZX8850S-C36-QYLBZX8850S-C39-QYLBZX8850S-C3V0-QYLBZX8850S-C3V3-QYLBZX8850S-C3V6-QYLBZX8850S-C3V9-QYLBZX8850S-C43-QYLBZX8850S-C47-QYLBZX8850S-C4V3-QYLBZX8850S-C51-QYLBZX8850S-C56-QYLBZX8850S-C62-QYLBZX8850S-C68-QYLBZX8850S-C75-QYLBZX8850S-C10-QYLBZX8850S-C11-QYLBZX8850S-C4V7-QYLBZX8850S-C5V1-QYLBZX8850S-C5V6-QYLBZX8850S-C6V2-QYLBZX8850S-C6V8-QYLBZX8850S-C6V2-QYLBZX8850S-C5V1-QYLBZX8850S-C5V6-QYL