Yongguang Elektronik Co., Ltd.
(State-owned 873 Factory)

Product structure: Silicon diffusion flat type, metal gas sealed.
Features:

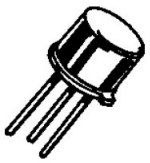
- Low temperature coefficient.
- The surface of the lead wire is a nickel-plated layer with a weight of about 1 gram.

Quality level and implementation standards:

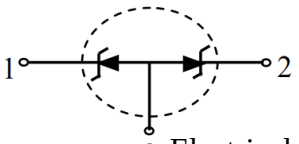
- National Military Standard JP, JT, JCT
  GJB33A-97 Q/FR20079-1998
- CASTB CASTC
  CASTPS10/122-2006 (2DW230)
  CASTPS10/123-2006 (2DW231)
  CASTPS10/124-2006 (2DW232)
  CASTPS10/125-2006 (2DW233)
  CASTPS10/126-2006 (2DW234)
  CASTPS10/127-2006 (2DW235)
  CASTPS10/128-2006 (2DW236)
- Seven Classes "GA"
  QZJ840611A Q/FRQZJ27-98
- Seven special grade "G"
  QZJ840611 Q/FRQZJ24-98
- National Standard Class II "J"
  GB4589.1-89 GB12560-90 Q/FR135-1998

Main use: Used in precision regulated power supply circuits.

Voltage reference diode
200mW
5.8V～6.5V
（50～5）×10^{-6}/℃



A3-02B（B-4）



Electrical schematic

Maximum rating

parameter name	Symbol	Maximum rating	Unit
Total power dissipation	P_{tot}[a]	200	mW
Maximum reverse DC current	I_{ZM}	30	mA
Maximum junction temperature	T_{jm}	175	°C
Storage temperature	T_{stg}	-55~175	°C
[a] Linear derating at 1.6 mW/°C when T_A >50 °C.			

Electrical characteristics (T_A = 25 ° C, unless otherwise specified)

Parameter	Operating Voltage V_Z I_Z=10mA (V)		Differential resistance R_Z I_Z=10mA (Ω)	Reverse current		Operating voltage temperature system		
				I_{R1} V_R=1V (μA)	I_{R2} V_R=3.6V (μA)	$\lvert\alpha_{VZ}\rvert$ (×10-6/℃)	I_{ZO} (mA)	test temperature (°C)
model	min	max	max	max	max	max	-	-
2DW230	5.8	6.6	25	1	2	50	10	25 75
2DW231			15					
2DW232	6.0	6.5	10	1	2	5	5	25 75
2DW233							7.5	
2DW234							10	
2DW235							12.5	
2DW236							15	

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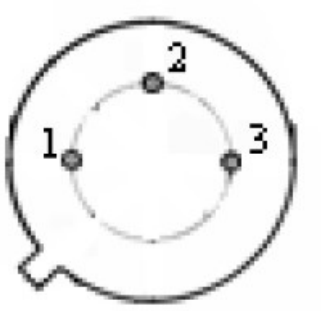
2DW230 ~ 2DW236

Model and seal logo
Including product model, factory standard, polarity symbol, etc.



Polarity arrangement: output 1 indicates the negative terminal with color point, 2 is positive terminal, and 3 is empty.

Characteristic curve

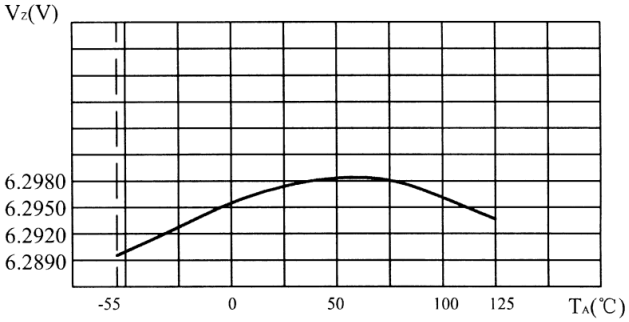


Figure1: 2DW232 typical V_Z - T_A curve

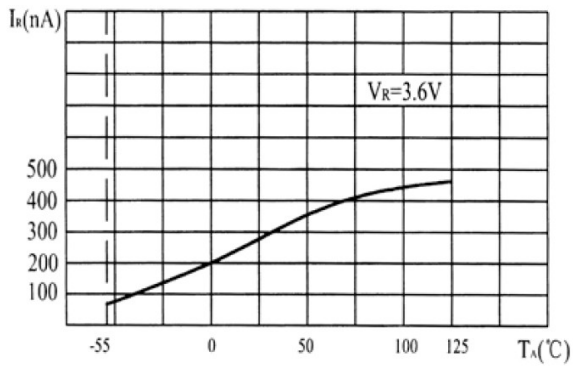


Figure2: 2DW232 typical I_R - T_A curve

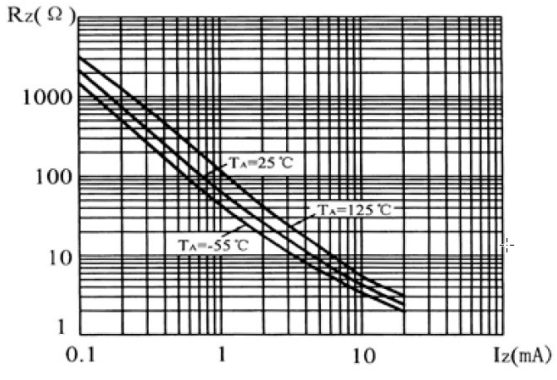


Figure3: 2DW232 typical R_Z - I_Z curve