

Zener diode

STZ6.8N

● Applications

Constant voltage control

Noise suppression on signal line

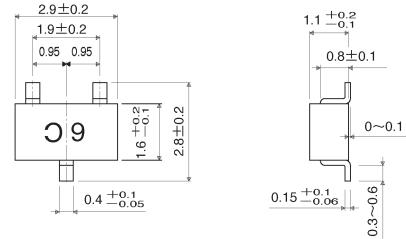
● Features

- 1) Small surface mounting type. (SMD3)
- 2) High reliability.
- 3) Multiple diodes with common anode configuration.

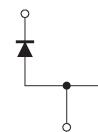
● Construction

Silicon epitaxial planar

● External dimensions (Units: mm)



(All leads have the same dimensions)



ROHM : SMD3
EIAJ : SC-59
JEDEC : SOT-23 similar

● Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Power dissipation	P^*	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55~+150	°C

* Total of 2 elements

● Electrical characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V_z	6.47	6.80	7.14	V	$I_z=5\text{mA}$
Reverse current	I_R	—	—	0.5	μA	$V_R=3.5\text{V}$
Operating resistance	Z_z	—	—	40	Ω	$I_z=5\text{mA}$
Rising operating resistance	Z_{zk}	—	—	60	Ω	$I_z=0.5\text{mA}$

- Electrical characteristic curve ($T_a = 25^\circ\text{C}$ unless specified otherwise)

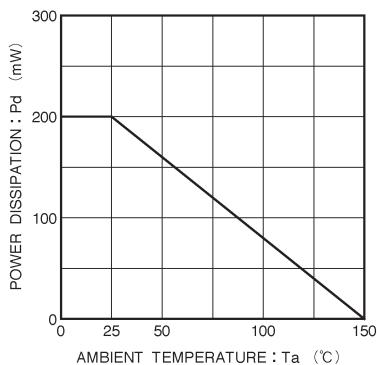


Fig. 1 Derating curve