

# Zener Diode Array

## STZ5.6N

### ●Applications

Constant voltage control  
For the ESD measure of a signal line

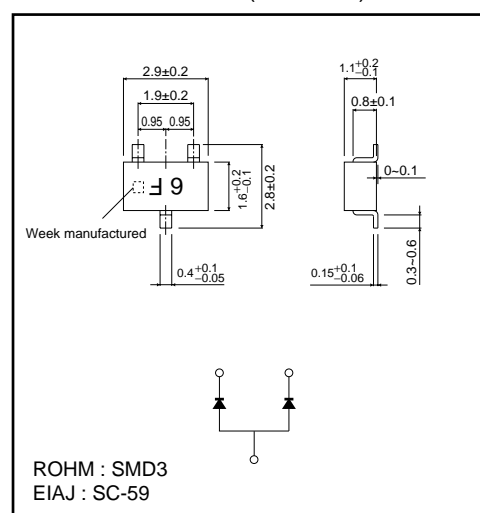
### ●Features

- 1) Designed for mounting on small surface areas
- 2) High reliability
- 3) Composite type with two anode/cathode elements

### ●Construction

Silicon epitaxial planar

### ●External dimensions (Units : mm)



### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P*	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	°C

\* Total of 2 elements

### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V <sub>Z</sub>	5.31	—	5.92	V	I <sub>Z</sub> =5mA
Reverse current	I <sub>R</sub>	—	—	1.00	μA	V <sub>R</sub> =2.5V
Operating resistance	Z <sub>Z</sub>	—	—	60	Ω	I <sub>Z</sub> =5mA
Rising operating resistance	Z <sub>ZK</sub>	—	—	200	Ω	I <sub>Z</sub> =0.5mA
Capacitance between terminals	C <sub>T</sub>	—	12	—	pF	f=1MHz, V <sub>R</sub> =5V

Diodes

●Others

Item	Standard1	IEC1000-4-2
Device configuration	Charge/discharge capacitance : 200pF±10% Discharge resistance : 400Ω ±10%	Charge/discharge capacitance : 150pF Discharge resistance : 330Ω
Judgment contents	5 repetitions No spark or smoke emitted : ±25kV No element destruction : ±20kV No malfunction : ± 8kV	10 repetitions No malfunction Contact : ± 8kV Suspended : ±15kV

●Electrical characteristic curves (Ta=25°C)

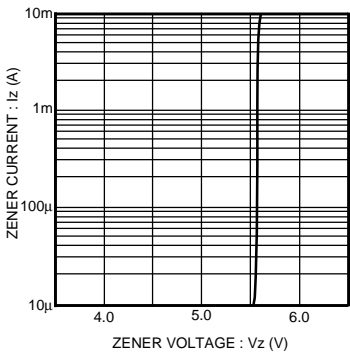


Fig.1 Zener characteristics

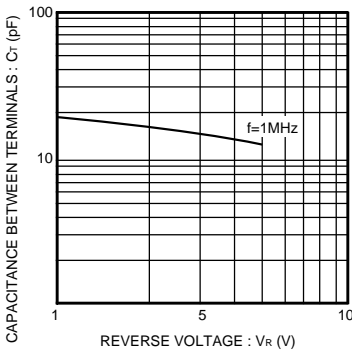


Fig.2 Capacitance between terminals characteristic

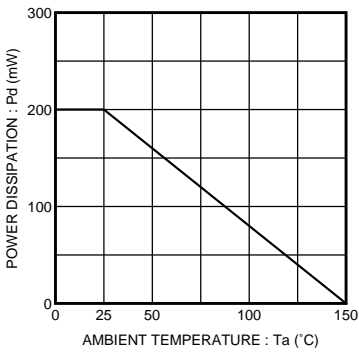


Fig.3 Derating curve