

Zener diode

FTZ5.6E

● Applications

Constant voltage control
Noise suppression on signal line

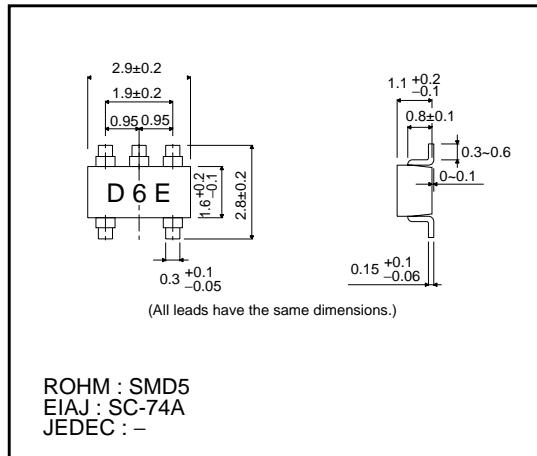
● Features

- 1) Small surface mounting type.(SMD5)
- 2) Multiple diodes with common anode configuration.
- 3) High reliability.

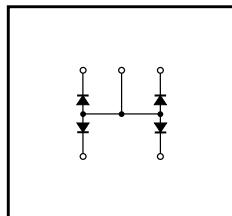
● Construction

Silicon epitaxial planar

● External dimensions (Units: mm)



● Circuit



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

Parameter	Symbol	Limits	Unit
Power dissipation*	P	200	mW
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55~+125	°C

* Total of 4 elements

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V _z	5.31	—	5.92	V	I _z = 5mA
Reverse current	I _R	—	—	1	μA	V _R = 2.5V
Operating resistance	Z _z	—	—	60	Ω	I _z = 5mA
Rising operating resistance	Z _{zk}	—	—	200	Ω	I _z = 0.5mA

Diodes

● Others

Item	Standard 1	IEC - 1000 - 4 - 2
Device configuration	Charge/discharge capacitance : $200 \text{ pF} \pm 10\%$ Discharge resistance : $400 \Omega \pm 10\%$	Charge/discharge capacitance : 150 pF Discharge resistance : 330Ω
Judgment contents	5 repetitions No spark or smoke emitted No element destruction No malfunction	10 repetitions No malfunction Contact : $\pm 8 \text{ kV}$ Suspended : $\pm 15 \text{ kV}$

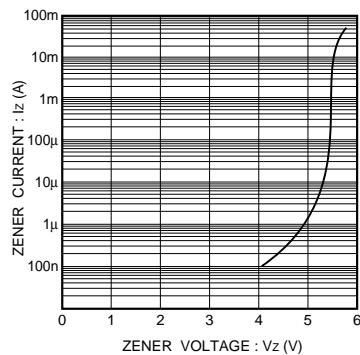
● Electrical characteristic curve ($T_a = 25^\circ\text{C}$)

Fig.1 Zener characteristics

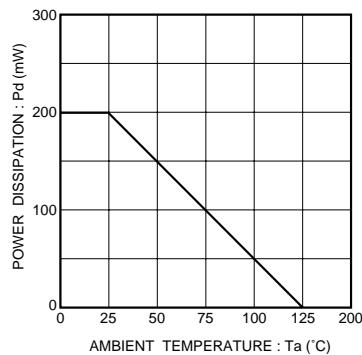


Fig.2 Derating curve