

Zener Diode

FTZ6.8E

●Application

Constant voltage control

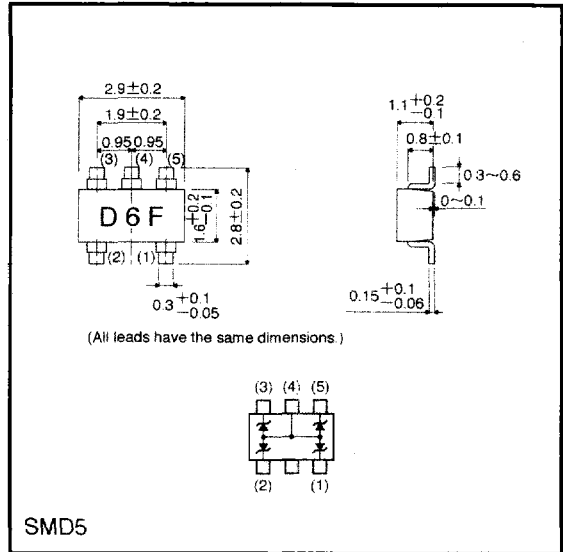
●Features

- 1) Designed for compact surface mounting (SMD5)
- 2) High reliability
- 3) Composite type with four anode common 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	T _j	125	°C
Storage temperature	T _{stg}	-55~125	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V _Z	6.47	6.80	7.14	V	I _Z =5mA
Reverse current	I _R	—	—	0.5	μA	V _R =3.5V
Operating resistance	Z _Z	—	—	40	Ω	I _Z =5mA
Rising operating resistance	Z _{ZK}	—	—	60	Ω	I _Z =0.5mA

●Other

Item	Standard 1	IEC-801
Device configuration	Charge/discharge capacitance : 200 pF ± 10% Discharge resistance : 400 Ω ± 10%	Charge/discharge capacitance : 150 pF Discharge resistance : 330 Ω
Judgment contents	5 repetitions No spark or smoke emitted : ±25 kV No element destruction : ±20 kV No malfunction : ±8 kV	10 repetitions No malfunction Contact : ±8 kV Suspended : ±15 kV

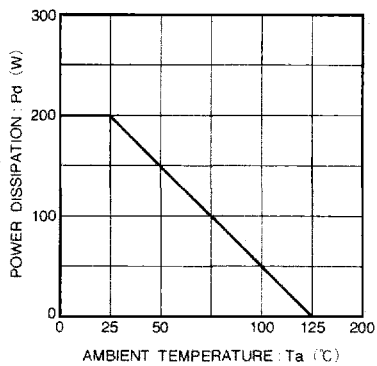
● Electrical characteristic curves ($T_a=25^\circ\text{C}$)

Fig. 1 Derating curve