# Zener diode

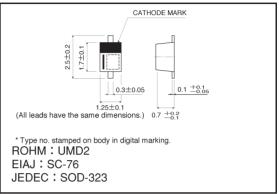
## Application

Constant voltage control

## Features

- 1) Extremely compact, 2-pin mini-mold type for highdensity mounting. (UMD2-SOD-323)
- 2) Non-wire bonding structure improves.
- High demand voltage range (5.1V–10V) is manufactured on high–efficient non–write bonding production line.

### External dimensions (Units: mm)



## Construction

Silicon epitaxial planar

#### Parameter Limits Unit Symbol Р Power dissipation 200 mW Junction temperature Τj 150 °C °C Storage temperature Tstg $-55 \sim +150$ °C Operating temperature $-55 \sim +150$ Topr

## • Absolute maximum ratings (Ta = $25^{\circ}$ C)

## Markings (TYPE No.)

Product name	Type No.		Product name	Type No.	
UDZS 5.1B	A	2	UDZS 7.5B	Н	2
UDZS 5.6B	С	2	UDZS 8.2B	J	2
UDZS 6.2B	E	2	UDZS 9.1B	L	2
UDZS 6.8B	F	2	UDZS 10B	0	5

(Ex.) UDZS 5.1B





# •Electrical characteristics (Ta = $25^{\circ}$ C)

Туре	Zener voltage			Operating resistance		Rising operating resistance		Reverse current	
	Vz (V)			Zz (Ω)		Zzk (Ω)		I <sub>R</sub> (μA)	
	Min.	Max.	Iz (mA)	Max.	lz (mA)	Max.	lz (mA)	Max.	VR (V)
UDZS 5.1B	4.980	5.200	5	80	5	500	0.5	2	1.5
UDZS 5.6B	5.490	5.730	5	60	5	200	0.5	1	2.5
UDZS 6.2B	6.060	6.330	5	60	5	100	0.5	1.0	3.0
UDZS 6.8B	6.650	6.930	5	40	5	60	0.5	0.5	3.5
UDZS 7.5B	7.280	7.600	5	30	5	60	0.5	0.5	4.0
UDZS 8.2B	8.020	8.360	5	30	5	60	0.5	0.5	5.0
UDZS 9.1B	8.850	9.230	5	30	5	60	0.5	0.5	6.0
UDZS 10B	9.770	10.210	5	30	5	60	0.5	0.1	7.0

Notes) 1. The Zener voltage (Vz) is measured 40ms after power is supplied.

2. The operating resistances (Zz, Zzk) are measured by superimposing a minute alternating current on the regulated current (Iz).

## Electrical characteristic curves (Ta = 25°C unless specified otherwise)

