Zener diode
UDZS Series

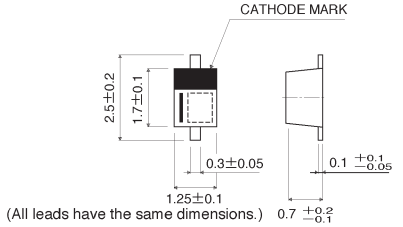
●Application

Constant voltage control

●Features

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

●External dimensions (Units: mm)



* Type no. stamped on body in digital marking.

ROHM : UMD2
EIAJ : SC-76
JEDEC : SOD-323

●Construction

Silicon epitaxial planar

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P	200	mW
Junction temperature	Tj	150	℃
Storage temperature	Tstg	−55～+150	℃
Operating temperature	Topr	−55～+150	℃

●Markings (TYPE No.)

Product name	Type No.		Product name	Type No.	
UDZS 5.1B	A	2	UDZS 7.5B	H	2
UDZS 5.6B	C	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°C)

Type	Zener voltage			Operating resistance		Rising operating resistance		Reverse current	
	V_Z (V)			Z_Z (Ω)		Z_{Zk} (Ω)		I_R (μA)	
	Min.	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	V_R (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 (V_Z) is measured 40ms after power is supplied.
2. The operating resistances (Z_Z, Z_{Zk}) are measured by superimposing a minute alternating current on the regulated current (I_Z).

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

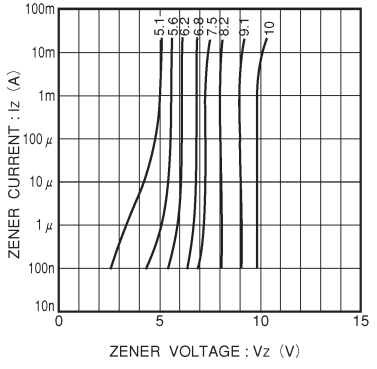


Fig. 1 Zener characteristics

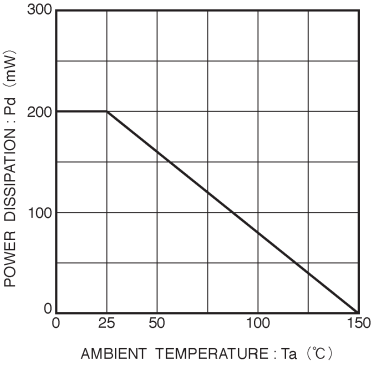


Fig. 2 Derating curve