# Zener diode

# **EDZ Series**

#### Applications

Constant voltage control

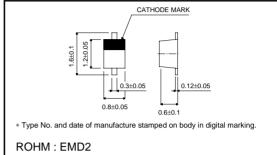
#### Features

- 1) Extremely compact, 2-pin mini-mold type for highdensity mounting (EMD2).
- 2) Can be mounted automatically, using chip mounter.
- 3) High reliability.

#### Construction

Silicon epitaxial planar

### ●External dimensions (Unit : mm)



ROHM: EMD2 EIAJ: SC-79 JEDEC: SOD-523

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

Parameter	Symbol	Limits	Unit	
Power dissipation	Р	100	mW	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	
Operating temperature	Topr	-55 to +125	°C	

#### ■Markings (Type No.)

Product name	Type No.			
EDZ4.7B	9	2		
EDZ5.1B	Α	2		
EDZ5.6B	С	2		
EDZ6.2B	Е	2		
EDZ6.8B	F	2		

(Ex.) EDZ4.7B



# ●Electrical characteristics (Ta=25°C)

	Zener voltage		Operating resistance		Rising operating resistance		Reverse current		
Туре	Vz (V)			Zz (Ω)		Zzk (Ω)		IR (μA)	
	Min.	Max.	Iz (mA)	Max.	Iz (mA)	Max.	Iz (mA)	Max.	V <sub>R</sub> (V)
EDZ4.7B	4.550	4.750	5	100	5	800	0.5	2	1.0
EDZ5.1B	4.980	5.200	5	80	5	500	0.5	2	1.5
EDZ5.6B	5.490	5.730	5	60	5	200	0.5	1	2.5
EDZ6.2B	6.060	6.330	5	60	5	100	0.5	1.0	3.0
EDZ6.8B	6.650	6.930	5	40	5	60	0.5	0.5	3.5

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

#### ●Electrical characteristic curves (Ta=25°C)

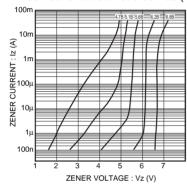


Fig. 1 Zener characteristics

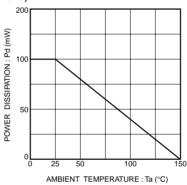


Fig. 2 Derating curve

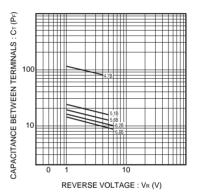


Fig. 3 Capacitance between terminal characteristics

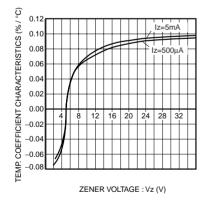


Fig. 4 Zener voltage-temp. coefficient chracteristics

\* EDZ series : Vz=4.7V~6.8V

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

# Makeup of the part number

- Please follow the part number designation when the order is placed.
- Fill in from the left, leaving any extra boxes empty on the right.
- Please refer packing specification about packing form.

#### Zener diodes





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