AEC-Q101 Qualified

Zener diode

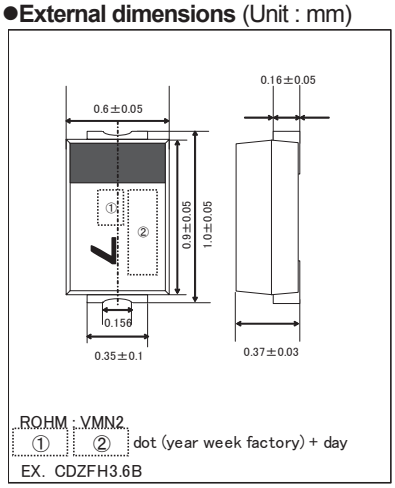
CDZFH5.1B

●**Applications**
Constant voltage control

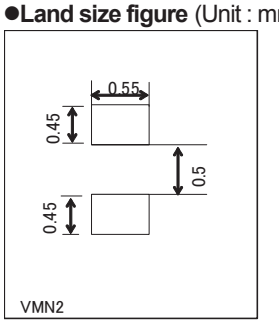
●**Features**
1) 2-pin ultra mini-mold type for high-density mounting (VMN2).
2) High reliability.
3) Can be mounted automatically, using chip mounter.

●**Construction**
Silicon epitaxial planar

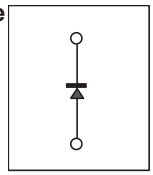
●**External dimensions** (Unit : mm)



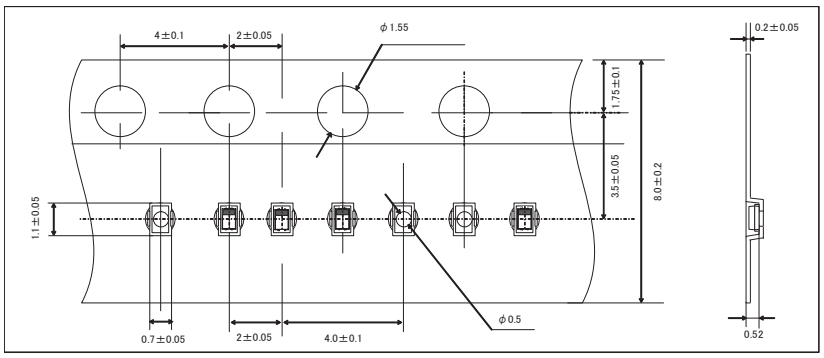
●**Land size figure** (Unit : mm)



●**Structure**



●**Taping specifications** (Unit : mm)



●**Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P	100	mW
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-55 to +150	℃
Operating temperature	Topr	-55 to +150	℃

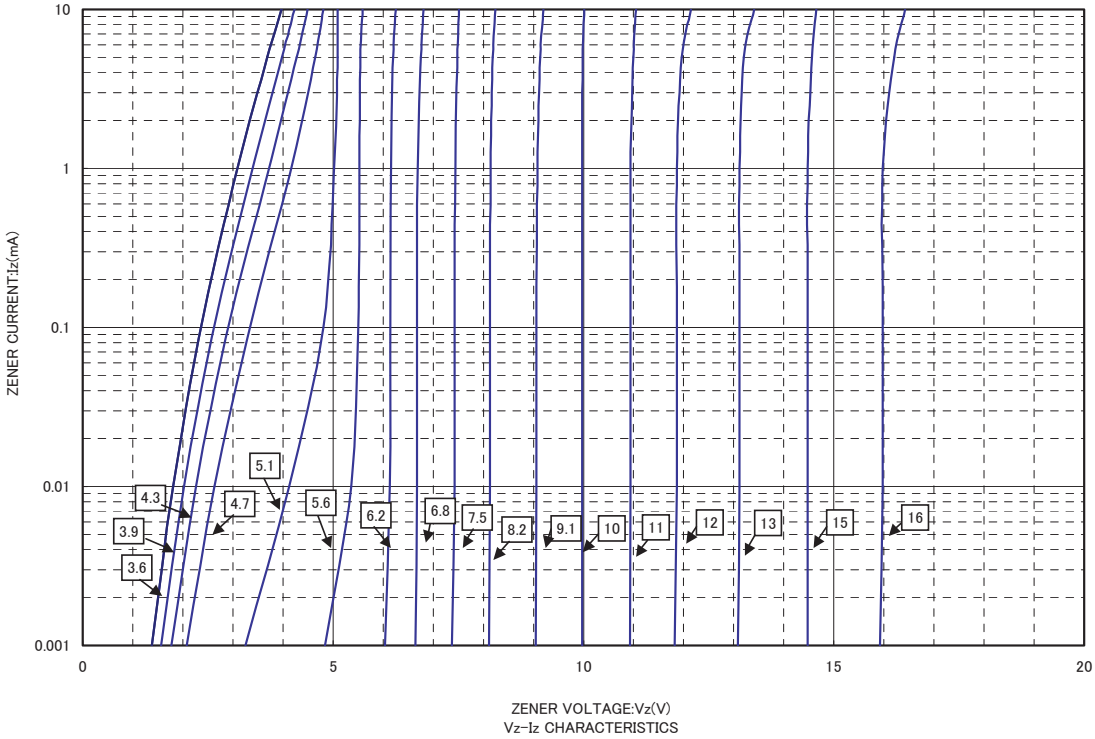
●**Electrical characteristics** (Ta=25°C)

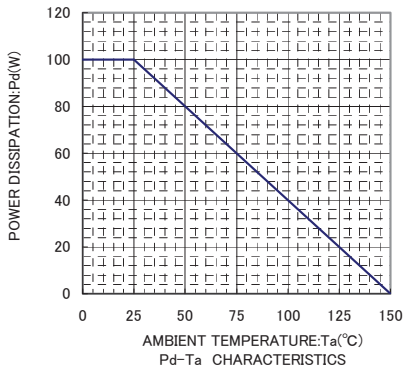
TYP.	Symbol								
	Zener voltage : Vz(V)			Operating resistance : Zz(Ω)		Rising operating resistance : Zz(Ω)		Reverse current : IR(uA)	
	MIN.	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	VR(V)
CDZFH3.6B	3.600	3.845	5.0	100	5.0	1000.0	1.0	10.0	1.0
CDZFH3.9B	3.890	4.160	5.0	100	5.0	1000.0	1.0	5.0	1.0
CDZFH4.3B	4.170	4.430	5.0	100	5.0	1000.0	1.0	5.0	1.0
CDZFH4.7B	4.550	4.750	5.0	100	5.0	800.0	0.5	2.0	1.0
CDZFH5.1B	4.980	5.200	5.0	80	5.0	500.0	0.5	2.0	1.5
CDZFH5.6B	5.490	5.730	5.0	60	5.0	200.0	0.5	1.0	2.5
CDZFH6.2B	6.060	6.330	5.0	60	5.0	100.0	0.5	1.0	3.0
CDZFH6.8B	6.650	6.930	5.0	40	5.0	60.0	0.5	0.5	3.5
CDZFH7.5B	7.280	7.600	5.0	30	5.0	60.0	0.5	0.5	4.0
CDZFH8.2B	8.020	8.360	5.0	30	5.0	60.0	0.5	0.5	5.0
CDZFH9.1B	8.850	9.230	5.0	30	5.0	60.0	0.5	0.5	6.0
CDZFH10B	9.770	10.210	5.0	30	5.0	60.0	0.5	0.1	7.0
CDZFH11B	10.760	11.220	5.0	30	5.0	60.0	0.5	0.1	8.0
CDZFH12B	11.740	12.240	5.0	30	5.0	80.0	0.5	0.1	9.0
CDZFH13B	12.910	13.490	5.0	37	5.0	80.0	0.5	0.1	10.0
CDZFH15B	14.340	14.980	5.0	42	5.0	80.0	0.5	0.1	11.0
CDZFH16B	15.850	16.510	5.0	50	5.0	80.0	0.5	0.1	12.0

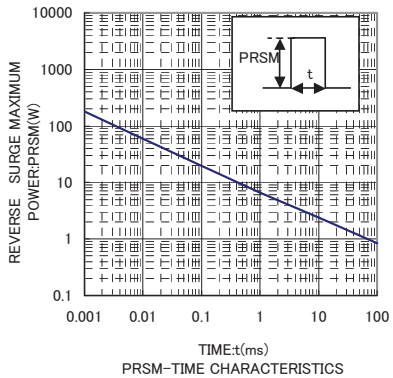
●**Type No.**

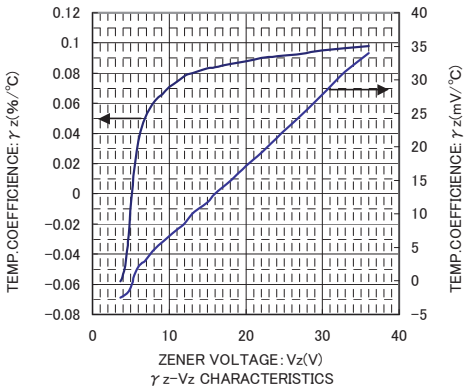
TYPE	TYPE NO.	TYPE	TYPE NO.
CDZFH3.6B	7	CDZFH8.2B	H
CDZFH3.9B	1	CDZFH9.1B	J
CDZFH4.3B	2	CDZFH10B	K
CDZFH4.7B	3	CDZFH11B	L
CDZFH5.1B	5	CDZFH12B	N
CDZFH5.6B	7	CDZFH13B	S
CDZFH6.2B	C	CDZFH15B	C
CDZFH6.8B	E	CDZFH16B	E
CDZFH7.5B	F		

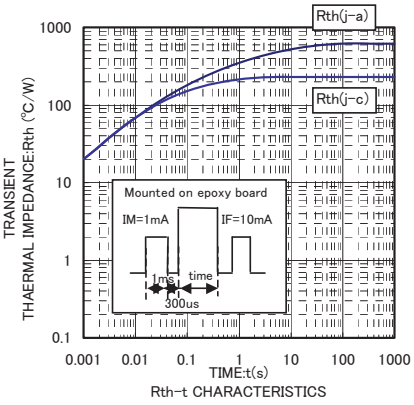
●**Electrical characteristic curves** (Ta=25°C)

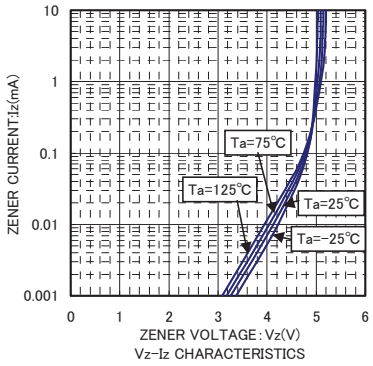




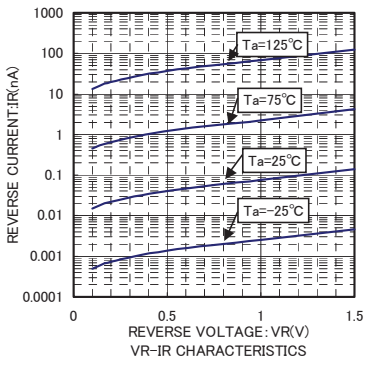




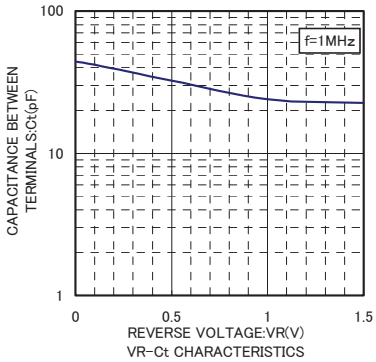




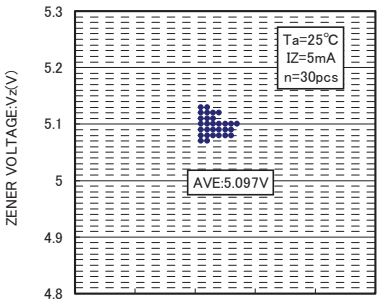
Vz–Iz CHARACTERISTICS



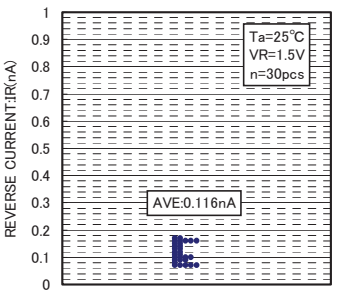
VR–IR CHARACTERISTICS



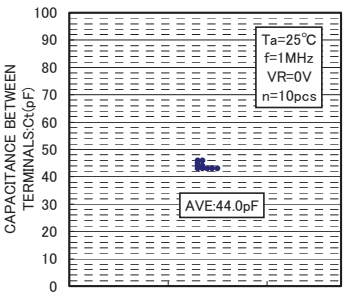
VR–Ct CHARACTERISTICS



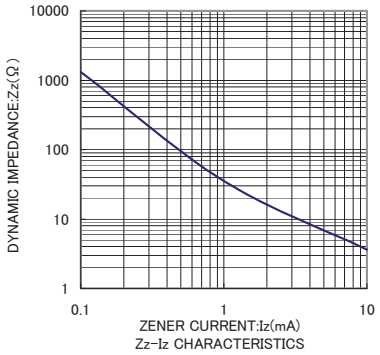
Vz DISPERSION MAP



IR DISPERSION MAP



Ct DISPERSION MAP



Zz–Iz CHARACTERISTICS

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