

P_D	500	mW
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● Feature

- High reliability
- Small mold type

● Application

- Voltage regulation

● Structure

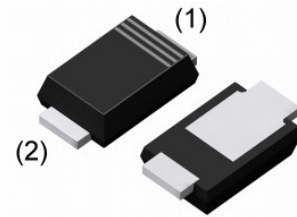
- Silicon Epitaxial Planar

● Absolute Maximum Rating ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Power dissipation	P_D	500	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 ~ 150	$^\circ\text{C}$

● Outline

TUMD2MSC-108B



● Inner Circuit



● Packaging Specification

Packing	Embossed Tape
Reel Size(mm)	180
Taping Width(mm)	8
Basic Ordering Unit(pcs)	3000
Taping Code	TR
Marking	NT

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

P/N	Symbol						
	Zener Voltage: V_Z (V)			Dynamic Impedance: Z_Z (Ω)		Reverse Current: I_R (μA)	
	MIN.	MAX.	I_Z (mA)	MAX.	I_Z (mA)	MAX.	V_R (V)
YFZVFH 3.6B	3.600	3.845	20	60	20	10	1.0
YFZVFH 3.9B	3.890	4.160	20	50	20	5	1.0
YFZVFH 4.3B	4.170	4.430	20	40	20	5	1.0
YFZVFH 4.7B	4.550	4.800	20	25	20	5	1.0
YFZVFH 5.1B	4.940	5.200	20	20	20	5	1.5
YFZVFH 5.6B	5.450	5.730	20	13	20	5	2.5
YFZVFH 6.2B	5.960	6.270	20	10	20	5	3.0
YFZVFH 6.8B	6.490	6.830	20	8	20	2	3.5
YFZVFH 7.5B	7.070	7.450	20	8	20	0.5	4.0
YFZVFH 8.2B	7.780	8.190	20	8	20	0.5	5.0
YFZVFH 9.1B	8.570	9.010	20	8	20	0.5	6.0
YFZVFH 10B	9.410	9.900	20	8	20	0.2	7.0
YFZVFH 11B	10.500	11.050	10	10	10	0.2	8.0
YFZVFH 12B	11.440	12.030	10	12	10	0.2	9.0
YFZVFH 13B	12.550	13.210	10	14	10	0.2	10
YFZVFH 15B	13.890	14.620	10	16	10	0.2	11
YFZVFH 16B	15.250	16.040	10	18	10	0.2	12
YFZVFH 18B	16.820	17.700	10	23	10	0.2	13
YFZVFH 20B	18.630	19.590	10	28	10	0.2	15
YFZVFH 22B	20.640	21.710	5	30	5	0.2	17
YFZVFH 24B	22.610	23.770	5	35	5	0.2	19
YFZVFH 27B	24.970	26.260	5	45	5	0.2	21
YFZVFH 30B	27.700	29.130	5	55	5	0.2	23
YFZVFH 33B	30.320	31.880	5	65	5	0.2	25
YFZVFH 36B	32.790	34.490	5	75	5	0.2	27
YFZVFH 39B	35.360	37.190	5	85	5	0.2	30

V_Z test time is 40ms

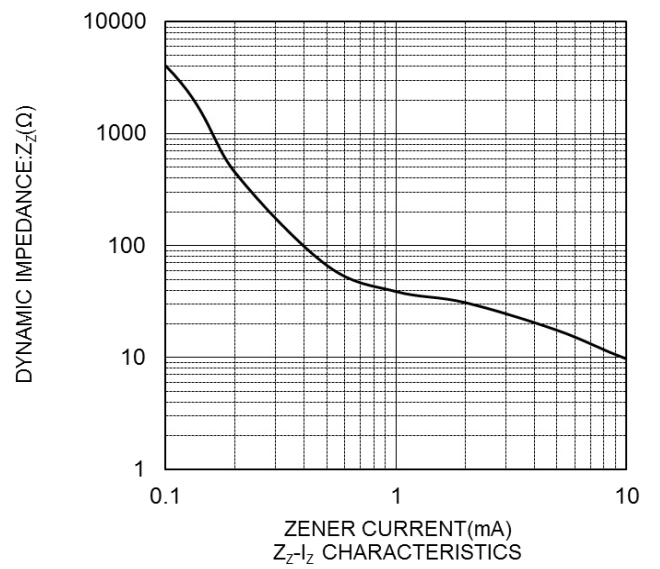
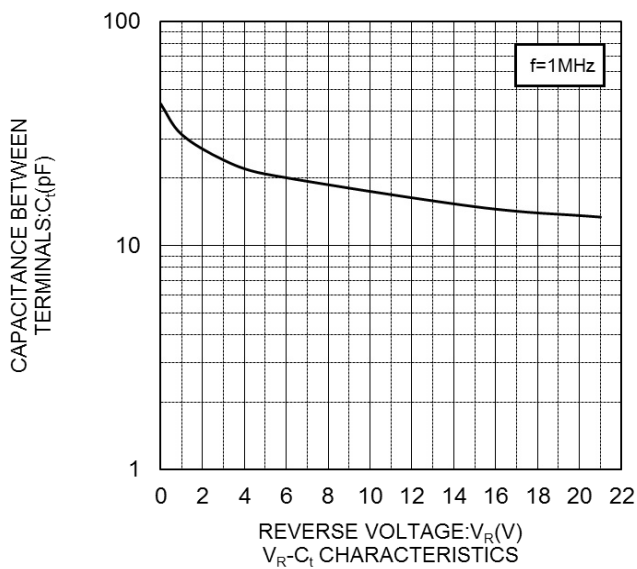
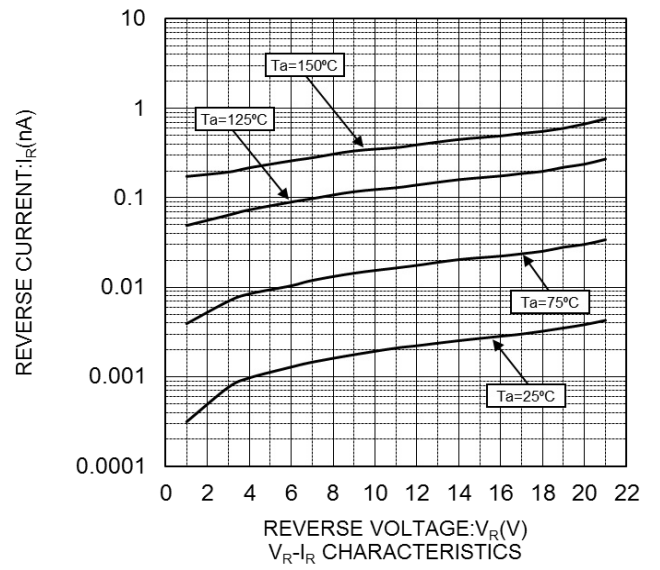
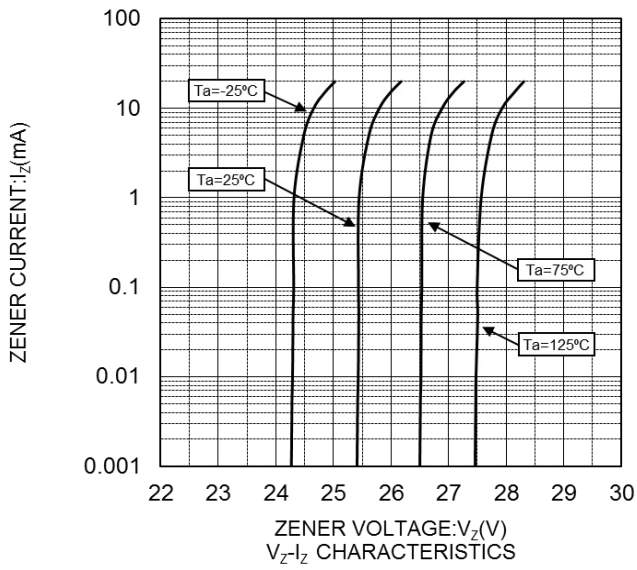
● Marking

P/N	Marking	P/N	Marking
YFZVFH 3.6B	N6	YFZVFH 12B	NK
YFZVFH 3.9B	N7	YFZVFH 13B	NL
YFZVFH 4.3B	N8	YFZVFH 15B	NM
YFZVFH 4.7B	N9	YFZVFH 16B	NN
YFZVFH 5.1B	NA	YFZVFH 18B	NP
YFZVFH 5.6B	NB	YFZVFH 20B	NQ
YFZVFH 6.2B	NC	YFZVFH 22B	NR
YFZVFH 6.8B	ND	YFZVFH 24B	NS
YFZVFH 7.5B	NE	YFZVFH 27B	NT
YFZVFH 8.2B	NF	YFZVFH 30B	NJ
YFZVFH 9.1B	NG	YFZVFH 33B	NV
YFZVFH 10B	NH	YFZVFH 36B	NW
YFZVFH 11B	NJ	YFZVFH 39B	NX

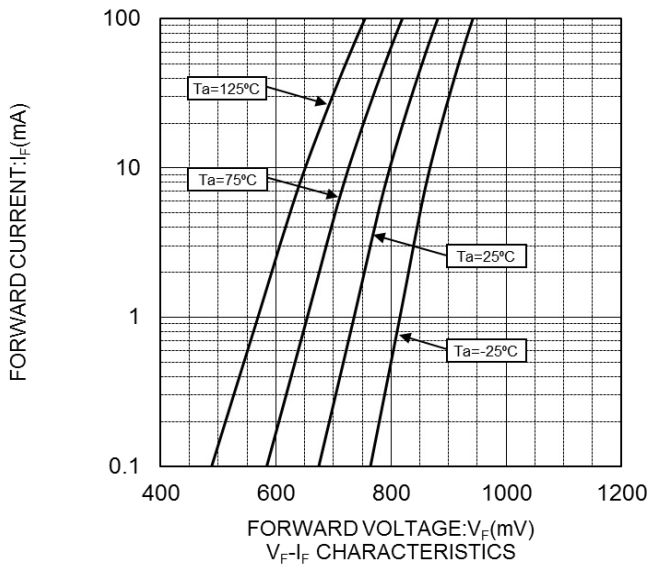
● Electrical Characteristic Curves



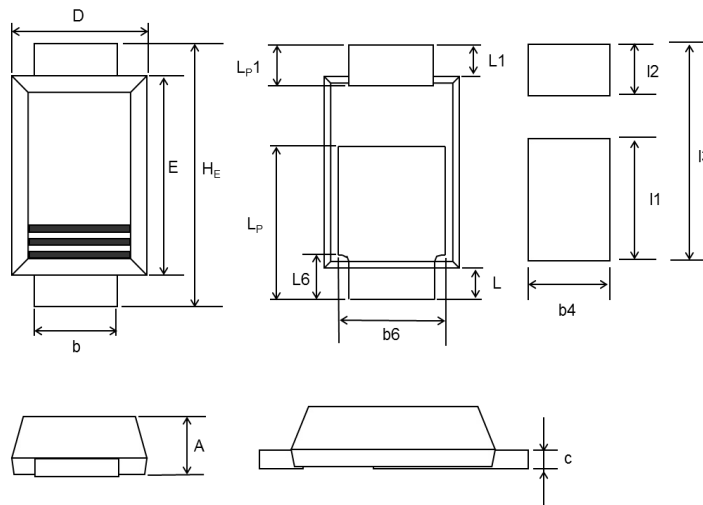
● Electrical Characteristic Curves



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● Dimension (TUMD2M SC-108B)



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A	0.50	0.60	0.80	0.020	0.024	0.031
b	0.75	0.80	0.85	0.029	0.031	0.033
b6	0.90	1.00	1.10	0.035	0.039	0.043
c	0.12	0.17	0.27	0.005	0.007	0.011
D	1.30	1.40	1.50	0.051	0.055	0.059
E	1.90	2.00	2.10	0.075	0.079	0.083
H _E	2.30	2.50	2.70	0.090	0.098	0.106
L	-	0.25	-	-	0.010	-
L1	-	0.25	-	-	0.010	-
L6	-	0.45	-	-	0.018	-
L _P	1.40	1.50	1.60	0.055	0.059	0.063
L _{P1}	0.30	0.40	0.50	0.012	0.016	0.020
b4	-	1.10	-	-	0.043	-
I1	-	2.00	-	-	0.079	-
I2	-	0.80	-	-	0.031	-
I3	-	3.30	-	-	0.130	-

● Taping

