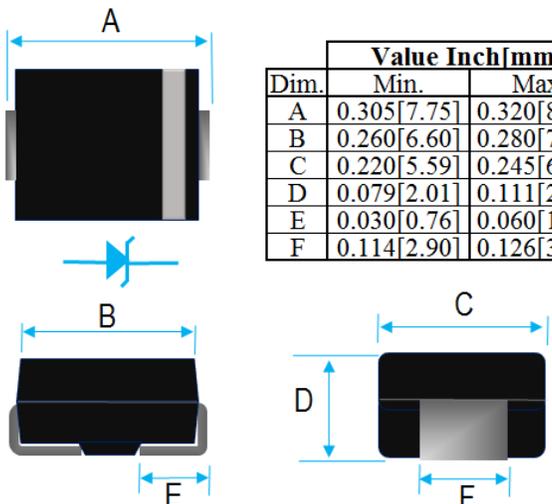


5W SURFACE MOUNT ZENER DIODES, 6.2V – 100V



Dim.	Value Inch[mm]	
	Min.	Max.
A	0.305[7.75]	0.320[8.13]
B	0.260[6.60]	0.280[7.11]
C	0.220[5.59]	0.245[6.22]
D	0.079[2.01]	0.111[2.82]
E	0.030[0.76]	0.060[1.52]
F	0.114[2.90]	0.126[3.20]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION 94V-0
2. GLASS PASSIVATED CHIP CONSTRUCTION
3. WIDE ZENER VOLTAGE RANGE FROM 6.2V TO 100V
4. LOW INDUCTANCE AND ZENER IMPEDANCE
5. POLARITY: INDICATED BY CATHODE BAND
6. MOLDED PLASTIC CASE DO-214AB (SMC)
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. LEADS: SOLDERABILITY PER MIL-STD-750 METHOD 2026
9. WEIGHT: 0.19 GRAMS
10. RoHS COMPLIANT. ADD SUFFIX "-H" FOR HALOGEN FREE PART. i.e. ZGFM5341B-H.

ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	CONDITIONS	SYMBOL	MIN.	TYP.	MAX.	UNIT
FORWARD VOLTAGE	$I_F = 1000\text{ mA}$	V_F			1.20	V
POWER DISSIPATION	$T_L = 75^\circ\text{C}$	P_D			5.0	W
OPERATING TEMPERATURE		T_J	-55		+150	$^\circ\text{C}$
STORAGE TEMPERATURE		T_{STG}	-65		+175	$^\circ\text{C}$

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	LIMIT	UNIT
TYPICAL THERMAL RESISTANCE JUNCTION TO LEAD	$R_{\theta JL}$	23	$^\circ\text{C/W}$
TYPICAL THERMAL RESISTANCE JUNCTION TO AMBIENT	$R_{\theta JA}$	50	$^\circ\text{C/W}$

Note : 1. Mounted on FR-4 PCB



ZGFM5341B THRU ZGFM5378B SPECIFICATION Rev. A

Part No.	Marking code	Zener			Test Current	Zener Impedance			Leakage Current	
		Vz @ IzT (Volts)				IzT	ZzT @ IzT	Zzk @ Izk	Izk	Ir
		Min.	Nom.	Max.	mA	(Ω)Max	(Ω)Max	mA	(uA)Max	Volts
ZGFM5341B	5341	5.89	6.2	6.51	200.0	1	200	1.00	10.0	3.0
ZGFM5342B	5342	6.46	6.8	7.14	175.0	1	200	1.00	10.0	5.2
ZGFM5343B	5343	7.13	7.5	7.88	175.0	1.5	200	1.00	10.0	5.7
ZGFM5344B	5344	7.79	8.2	8.61	150.0	1.5	200	1.00	10.0	6.2
ZGFM5345B	5345	8.27	8.7	9.14	150.0	2	200	1.00	10.0	6.6
ZGFM5346B	5346	8.65	9.1	9.56	150.0	2	150	1.00	7.5	6.9
ZGFM5347B	5347	9.50	10	10.50	125.0	2	125	1.00	5.0	7.6
ZGFM5348B	5348	10.45	11	11.55	125.0	2.5	125	1.00	5.0	8.4
ZGFM5349B	5349	11.4	12	12.60	100.0	2.5	125	1.00	2.0	9.1
ZGFM5350B	5350	12.35	13	13.65	100.0	2.5	100	1.00	1.0	9.9
ZGFM5351B	5351	13.30	14	14.70	100.0	2.5	75	1.00	1.0	10.6
ZGFM5352B	5352	14.25	15	15.75	75.0	2.5	75	1.00	1.0	11.
ZGFM5353B	5353	15.20	16	16.80	75.0	2.5	75	1.00	1.0	12.2
ZGFM5354B	5354	16.15	17	17.85	70.0	2.5	75	1.00	0.5	12.9
ZGFM5355B	5355	17.10	18	18.90	65.0	2.5	75	1.00	0.5	13.7
ZGFM5356B	5356	18.05	19	19.95	65.0	3	75	1.00	0.5	14.4
ZGFM5357B	5357	19.00	20	21.00	65.0	3	75	1.00	0.5	15.2
ZGFM5358B	5358	20.90	22	23.10	50.0	3.5	75	1.00	0.5	16.7
ZGFM5359B	5359	22.80	24	25.20	50.0	3.5	100	1.00	0.5	18.2
ZGFM5360B	5360	23.75	25	26.25	50.0	4	110	1.00	0.5	19.0
ZGFM5361B	5361	25.65	27	28.35	50.0	5	120	1.00	0.5	20.6
ZGFM5362B	5362	26.60	28	29.40	50.0	6	130	1.00	0.5	21.2
ZGFM5363B	5363	28.50	30	31.50	40.0	8	140	1.00	0.5	22.8
ZGFM5364B	5364	31.35	33	34.65	40.0	10	150	1.00	0.5	25.1
ZGFM5365B	5365	34.20	36	37.80	30.0	11	160	1.00	0.5	27.4
ZGFM5366B	5366	37.05	39	40.95	30.0	14	170	1.00	0.5	29.7
ZGFM5367B	5367	40.85	43	45.15	30.0	20	190	1.00	0.5	32.7
ZGFM5368B	5368	44.65	47	49.35	25.0	25	210	1.00	0.5	35.8
ZGFM5369B	5369	48.45	51	53.55	25.0	27	230	1.00	0.5	38.8
ZGFM5370B	5370	53.20	56	58.80	20.0	35	280	1.00	0.5	42.6
ZGFM5371B	5371	57.00	60	63.00	20.0	40	350	1.00	0.5	45.5
ZGFM5372B	5372	58.90	62	65.10	20.0	42	400	1.00	0.5	47.1
ZGFM5373B	5373	64.60	68	71.40	20.0	44	500	1.00	0.5	51.7
ZGFM5374B	5374	71.25	75	78.75	20.0	45	620	1.00	0.5	56.0
ZGFM5375B	5375	77.90	82	86.10	15.0	65	720	1.00	0.5	62.2
ZGFM5376B	5376	82.65	87	91.35	15.0	75	760	1.00	0.5	66.0
ZGFM5377B	5377	86.45	91	95.55	15.0	75	760	1.00	0.5	69.2
ZGFM5378B	5378	95.00	100	105.0	12.0	90	800	1.00	0.5	76.0

Note : Suffix B denotes 5% tolerance of Zener voltage



RATINGS AND CHARACTERISTIC CURVES

FIG. 1 POWER TEMPERATURE DERATING CURVE

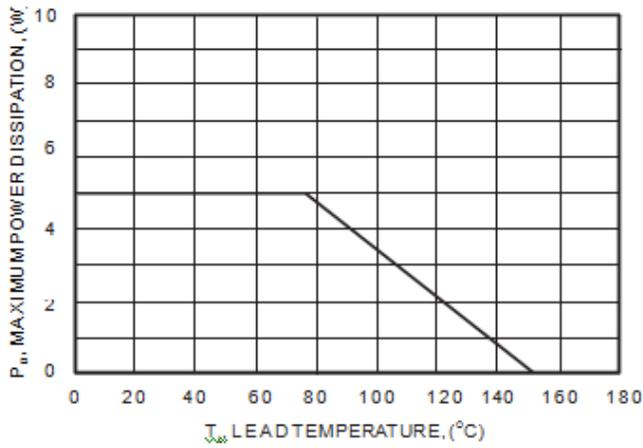


FIG. 2 TEMPERATURE COEFFICIENT-RANGE FOR UNITS 10 TO 100 VOLTAGES

