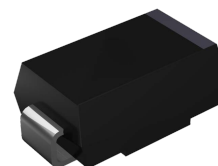


GSMZ5342B thru GSMZ5378B

Surface Mount Silicon Zener Diodes
Vz Range: 6.8V to 100V Power Dissipation: 5W

Features

- Complete voltage range 6.8V to 100V
- High peak reverse power dissipation
- High reliability
- Low leakage current



DO-214AB (SMC)

Mechanical Data

- Package: DO-214AB (SMC) molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- Polarity: Cathode band

Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

Rating	Symbol	Value	Unit
Power Dissipation at T _L =25°C	P _D	5	W
Maximum Forward Voltage at I _F =1.0A	V _F	1.2	V
Thermal Resistance, Junction to Ambient ¹	R _{θJA}	90	°C/W
Thermal Resistance, Junction to Lead ¹	R _{θJL}	25	°C/W
Operating and Storage Temperature Range	T _J /T _{STG}	-65 to +150	°C

Note:

1. When mounted on FR4 PC board (1 oz Cu) with recommended footprint.

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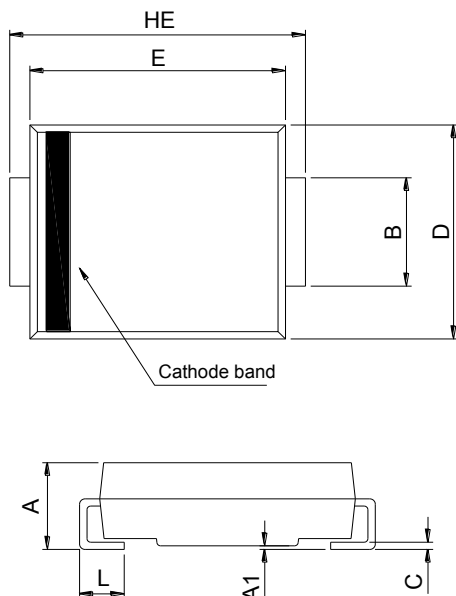
Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified)

Part Number	Marking Code	Regulator Voltage				Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum Zener Current	Maximum Surge Current	Maximum Voltage Regulator
		V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		I _{ZM}	I _{ZSM}	ΔV _Z
		Min (V)	Nom (V)	Max (V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(A)	(V)
GSMZ5342B	5342B	6.460	6.8	7.140	175	1.0	200	1.0	10	5.2	700	11.5	0.15
GSMZ5343B	5343B	7.125	7.5	7.875	175	1.5	200	1.0	10	5.7	630	10.7	0.15
GSMZ5344B	5344B	7.790	8.2	8.610	150	1.5	200	1.0	10	6.2	580	10.0	0.20
GSMZ5345B	5345B	8.265	8.7	9.135	150	2.0	200	1.0	10	6.6	545	9.5	0.20
GSMZ5346B	5346B	8.645	9.1	9.555	150	2.0	150	1.0	7.5	6.9	520	9.2	0.22
GSMZ5347B	5347B	9.500	10	10.500	125	2.0	125	1.0	5.0	7.6	475	8.6	0.22
GSMZ5348B	5348B	10.45	11	11.55	125	2.5	125	1.0	5.0	8.4	430	8.0	0.25
GSMZ5349B	5349B	11.40	12	12.60	100	2.5	125	1.0	2.0	9.1	395	7.5	0.25
GSMZ5350B	5350B	12.35	13	13.65	100	2.5	100	1.0	1.0	9.9	365	7.0	0.25
GSMZ5351B	5351B	13.30	14	14.70	100	2.5	75	1.0	1.0	10.6	340	6.7	0.25
GSMZ5352B	5352B	14.25	15	15.75	75	2.5	75	1.0	1.0	11.5	315	6.3	0.25
GSMZ5353B	5353B	15.20	16	16.80	75	2.5	75	1.0	1.0	12.2	295	6.0	0.30
GSMZ5354B	5354B	16.15	17	17.85	70	2.5	75	1.0	0.5	12.9	280	5.8	0.35
GSMZ5355B	5355B	17.10	18	18.90	65	2.5	75	1.0	0.5	13.7	265	5.5	0.40
GSMZ5356B	5356B	18.05	19	19.95	65	3.0	75	1.0	0.5	14.4	250	5.3	0.40
GSMZ5357B	5357B	19.00	20	21.00	65	3.0	75	1.0	0.5	15.2	237	5.1	0.40
GSMZ5358B	5358B	20.90	22	23.10	50	3.5	75	1.0	0.5	16.7	216	4.7	0.45
GSMZ5359B	5359B	22.80	24	25.20	50	3.5	100	1.0	0.5	18.2	198	4.4	0.55
GSMZ5360B	5360B	23.75	25	26.25	50	4.0	110	1.0	0.5	19.0	190	4.3	0.55
GSMZ5361B	5361B	25.65	27	28.35	50	5.0	120	1.0	0.5	20.6	176	4.1	0.60
GSMZ5362B	5362B	26.60	28	29.40	50	6.0	130	1.0	0.5	21.2	170	3.9	0.60
GSMZ5363B	5363B	28.50	30	31.50	40	8.0	140	1.0	0.5	22.8	158	3.7	0.60
GSMZ5364B	5364B	31.35	33	34.65	40	10	150	1.0	0.5	25.1	144	3.5	0.60
GSMZ5365B	5365B	34.20	36	37.80	30	11	160	1.0	0.5	27.4	132	3.3	0.65
GSMZ5366B	5366B	37.05	39	40.95	30	14	170	1.0	0.5	29.7	122	3.1	0.65
GSMZ5367B	5367B	40.85	43	45.15	30	20	190	1.0	0.5	32.7	110	2.8	0.70
GSMZ5368B	5368B	44.65	47	49.35	25	25	210	1.0	0.5	35.8	100	2.7	0.80
GSMZ5369B	5369B	48.45	51	53.55	25	27	230	1.0	0.5	38.8	93.0	2.5	0.90
GSMZ5370B	5370B	53.20	56	58.80	20	35	280	1.0	0.5	42.6	86.0	2.3	1.00
GSMZ5371B	5371B	57.00	60	63.00	20	40	350	1.0	0.5	45.5	79.0	2.2	1.20
GSMZ5372B	5372B	58.90	62	65.10	20	42	400	1.0	0.5	47.1	76.0	2.1	1.35
GSMZ5373B	5373B	64.60	68	71.40	20	44	500	1.0	0.5	51.7	70.0	2.0	1.50
GSMZ5374B	5374B	71.25	75	78.75	20	45	620	1.0	0.5	56.0	63.0	1.9	1.60
GSMZ5375B	5375B	77.90	82	86.10	15	65	720	1.0	0.5	62.2	58.0	1.8	1.80
GSMZ5376B	5376B	82.65	87	91.35	15	75	760	1.0	0.5	66.0	54.5	1.7	2.00
GSMZ5377B	5377B	86.45	91	95.55	15	75	760	1.0	0.5	69.2	52.5	1.6	2.20
GSMZ5378B	5378B	95.00	100	105.00	12	90	800	1.0	0.5	76.0	47.5	1.5	2.30

GSMZ5342B thru GSMZ5378B

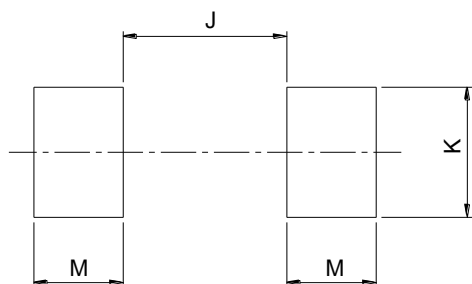
Surface Mount Silicon Zener Diodes
Vz Range: 6.8V to 100V Power Dissipation: 5W

Package Outline Dimensions DO-214AB (SMC)



SMC (DO-214AB)				
DIM	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.00	2.62	0.079	0.103
A1	0.00	0.20	0.000	0.008
B	2.90	3.20	0.114	0.126
C	0.15	0.31	0.006	0.012
D	5.58	6.22	0.220	0.245
E	6.60	7.15	0.260	0.281
HE	7.75	8.15	0.305	0.321
L	0.76	1.60	0.030	0.063

Recommended Pad Layout



SMC Recommended Pad Layout (Reference ONLY)				
DIM	Millimeters		Inches	
	Min.	Max.	Min.	Max.
J	-	4.60	-	0.181
K	3.20	-	0.126	-
M	2.00	-	0.079	-

Order Information

Device	Package	Marking	Carrier	Quantity
GSMZ53xxB	DO-214AB (SMC)	See Marking Code	Tape & Reel	3,000 Pcs / Reel

For more information, please contact us at: inquiry@goodarksemi.com