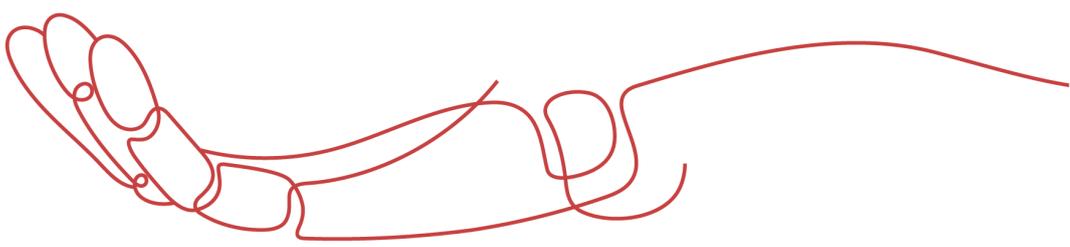


PRODUCT DATA SHEET



To learn more about JGSEMI, please visit our website at



Datasheet



Resources

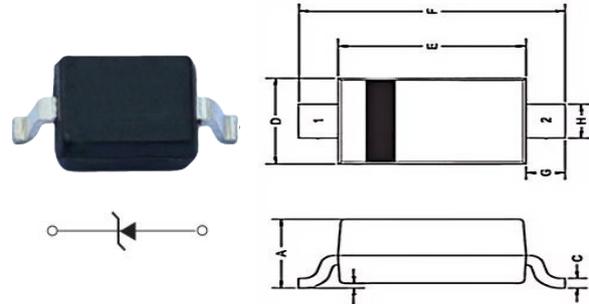


Samples

Please note: Please check the JINGAO Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.jg-semi.cn. Please email any questions regarding the system integration to JINGAO_questions@jgsemi.com.

FEATURES

- Planar Die Construction
- Ultra-Small Surface Mount Package
- General purpose, Medium Current
- Ideally Suited for Automated Assembly Processes

PACKAGE OUTLINE


SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.053	0.95	1.35
B	0.000	0.005	0.00	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.110	2.50	2.80
F	0.142	0.154	3.60	3.80
G	0.016	-	0.40	-
H	0.020	0.028	0.50	0.70

ABSOLUTE MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$, unless otherwise specified)

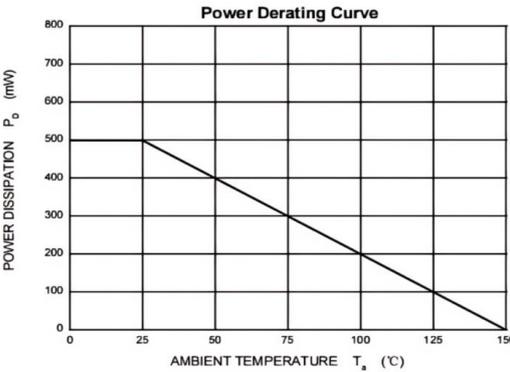
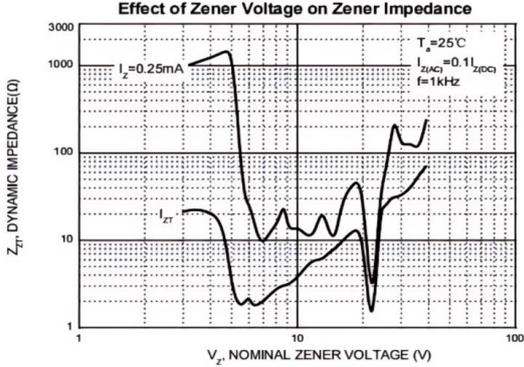
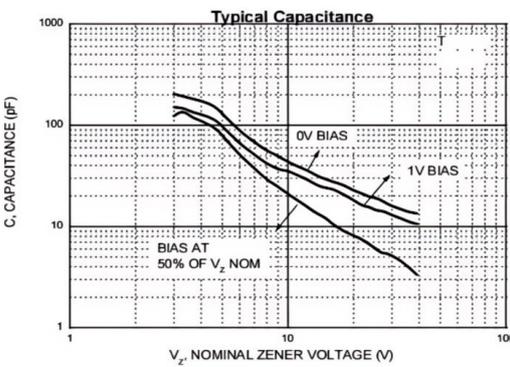
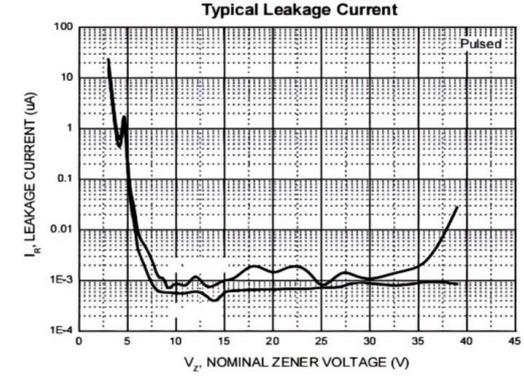
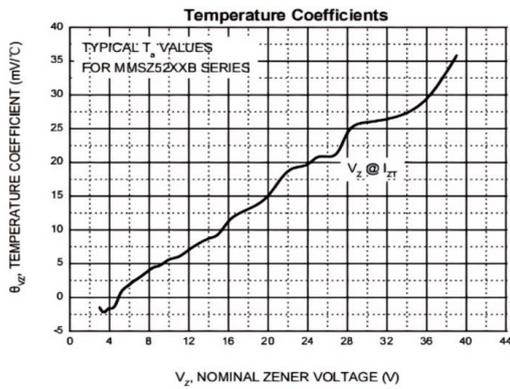
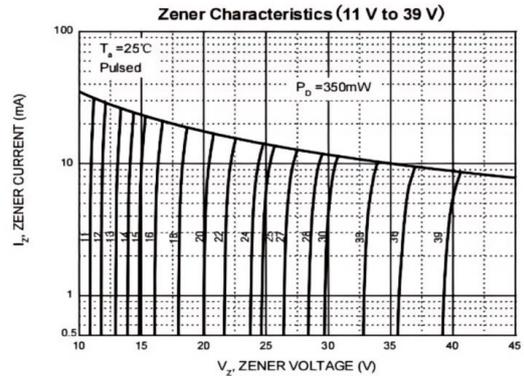
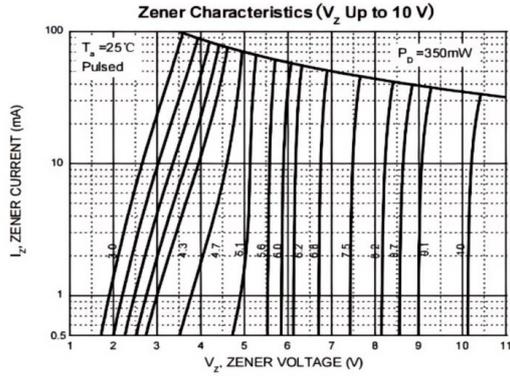
PARAMETER	SYMBOL	VALUE	UNIT
Forward Voltage @ $I_F = 10\text{mA}$ (Note2)	V_F	0.9	V
Power Dissipation(Note1)	P_D	500	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	250	$^{\circ}\text{C}/\text{W}$
Junction Temperature and Storage Temperature Range	T_J, T_{stg}	-55~+150	$^{\circ}\text{C}$

Notes:

1. Mounted on 1 in2 FR-4 board with 2oz. Copper, in a still air environment with $T_A=25^{\circ}\text{C}$.
2. Tested with pulses, $T_p \leq 1.0\text{ms}$.

ELECTRICAL CHARACTERISTICS(T_A=25°C,unless otherwise specified)

TYPE	Zener Voltage Range				Maximum Zener Impedance			Reverse Current	
	V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R	@V _R
	Nom(V)	Min(V)	Max(V)	(mA)	(Ω)	(Ω)	(mA)	μA	V
MMSZ5221B	2.4	2.28	2.52	20	30	1200	0.25	100	1.0
MMSZ5223B	2.7	2.57	2.84	20	30	1300	0.25	75	1.0
MMSZ5225B	3.0	2.85	3.15	20	30	1600	0.25	50	1.0
MMSZ5226B	3.3	3.14	3.47	20	28	1600	0.25	25	1.0
MMSZ5227B	3.6	3.42	3.78	20	24	1700	0.25	15	1.0
MMSZ5228B	3.9	3.71	4.10	20	23	1900	0.25	10	1.0
MMSZ5229B	4.3	4.09	4.52	20	22	2000	0.25	5	1.0
MMSZ5230B	4.7	4.47	4.94	20	19	1900	0.25	5	2.0
MMSZ5231B	5.1	4.85	5.36	20	17	1600	0.25	5	2.0
MMSZ5232B	5.6	5.32	5.88	20	11	1600	0.25	5	3.0
MMSZ5233B	6.0	5.70	6.30	20	7	1600	0.25	5	3.5
MMSZ5234B	6.2	5.89	6.51	20	7	1000	0.25	5	4.0
MMSZ5235B	6.8	6.46	7.14	20	5	750	0.25	3	5.0
MMSZ5236B	7.5	7.13	7.88	20	6	500	0.25	3	6.0
MMSZ5237B	8.2	7.79	8.61	20	8	500	0.25	3	6.5
MMSZ5238B	8.7	8.27	9.14	20	8	600	0.25	3	6.5
MMSZ5239B	9.1	8.65	9.56	20	10	600	0.25	3	7.0
MMSZ5240B	10	9.50	10.50	20	17	600	0.25	3	8.0
MMSZ5241B	11	10.45	11.55	20	22	600	0.25	2.0	8.4
MMSZ5242B	12	11.40	12.60	20	30	600	0.25	1.0	9.1
MMSZ5243B	13	12.35	13.65	9.5	13	600	0.25	0.5	9.9
MMSZ5244B	14	13.30	14.70	9.0	15	600	0.25	0.1	10
MMSZ5245B	15	14.25	15.75	8.5	16	600	0.25	0.1	11
MMSZ5246B	16	15.20	16.80	7.8	17	600	0.25	0.1	12
MMSZ5247B	17	16.15	17.85	7.4	19	600	0.25	0.1	13
MMSZ5248B	18	17.10	18.90	7.0	21	600	0.25	0.1	14
MMSZ5250B	20	19.00	21.00	6.2	25	600	0.25	0.1	15
MMSZ5251B	22	20.90	23.10	5.6	29	600	0.25	0.1	17
MMSZ5252B	24	22.80	25.20	5.2	33	600	0.25	0.1	18
MMSZ5253B	25	23.75	26.25	5.0	35	600	0.25	0.1	19
MMSZ5254B	27	25.65	28.35	5.0	41	600	0.25	0.1	21
MMSZ5255B	28	26.60	29.40	4.5	44	600	0.25	0.1	21
MMSZ5256B	30	28.50	31.50	4.2	49	600	0.25	0.1	23
MMSZ5257B	33	31.35	34.65	3.8	58	700	0.25	0.1	25
MMSZ5258B	36	34.20	37.80	3.4	70	700	0.25	0.1	27
MMSZ5259B	39	37.05	40.95	3.2	80	800	0.25	0.1	30

TYPICAL CHARACTERISTICS


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