October 2015



MMSZ5226B - MMSZ5257B Zeners

Tolerance = 5%



Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Units
PD	Power Dissipation at $T_A = 25^{\circ}C$	500	mW
R _{θJA}	Thermal Resistance, Junction to Ambient ⁽¹⁾	340	°C/W
T _{STG}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	+150	°C

Note:

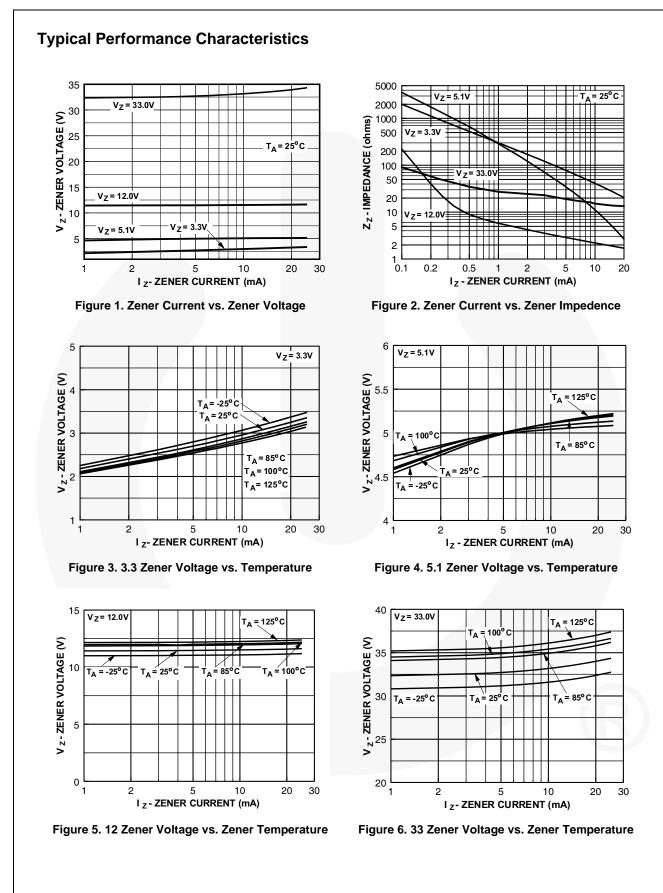
1. FR-4 or FR-5 = 3.5 inch \times 1.5 inch using minimum recommended land pads.

MMSZ5226B - MMSZ5257B — Zeners

Electrical Characteristics

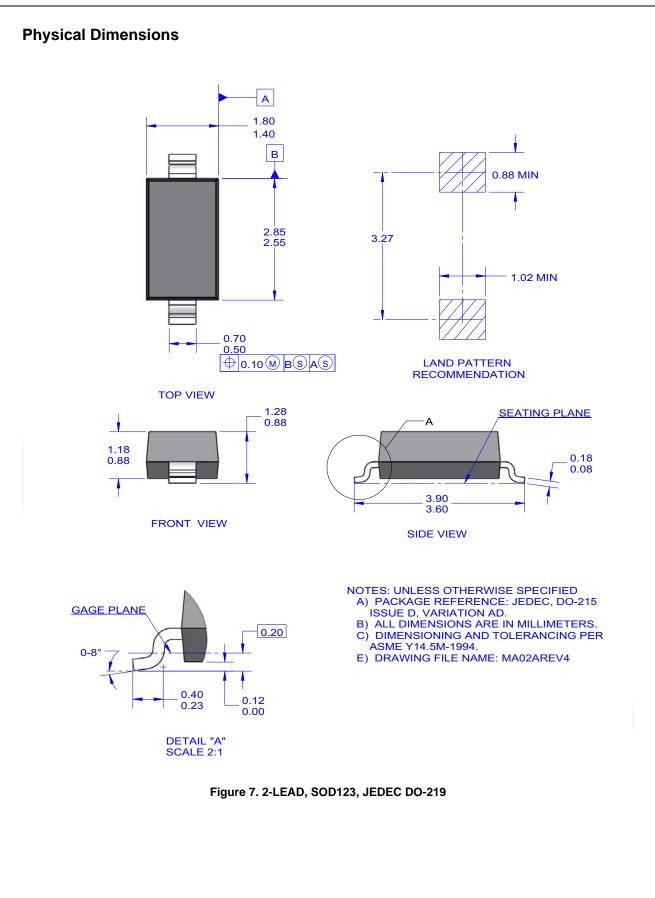
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Device	Mark	V _Z (V) @ I _Z (mA)			Z _Z (Ω) @ I _Z (mA)		Z _{ZK} (Ω) @ I _{ZK} (mA)				
Device	ivia n	Min.	Тур.	Max.	l _Z (mA)	2 _Z (32) @ 1 _Z (111A)		Z _{ZK} (32) @ I _{ZK} (IIIA)		I _R (μΑ) @ V _R (V)	
MMSZ5226B	D1	3.135	3.3	3.465	20	28	20	1,600	0.25	25	1.0
MMSZ5227B	D2	3.42	3.6	3.78	20	24	20	1,700	0.25	15	1.0
MMSZ5228B	D3	3.705	3.9	4.095	20	23	20	1,900	0.25	10	1.0
MMSZ5229B	D4	4.085	4.3	4.515	20	22	20	2,000	0.25	5.0	1.0
MMSZ5230B	D5	4.465	4.7	4.935	20	19	20	1,900	0.25	5.0	2.0
MMSZ5231B	E1	4.845	5.1	5.355	20	17	20	1,600	0.25	5.0	2.0
MMSZ5232B	E2	5.32	5.6	5.88	20	11	20	1,600	0.25	5.0	3.0
MMSZ5233B	E3	5.7	6	6.3	20	7.0	20	1,600	0.25	5.0	3.5
MMSZ5234B	E4	5.89	6.2	6.51	20	7.0	20	1,000	0.25	5.0	4.0
MMSZ5235B	E5	6.46	6.8	7.14	20	5.0	20	750	0.25	3.0	5.0
MMSZ5236B	F1	7.125	7.5	7.875	20	6.0	20	500	0.25	3.0	6.0
MMSZ5237B	F2	7.79	8.2	8.61	20	8.0	20	500	0.25	3.0	6.5
MMSZ5238B	F3	8.265	8.7	9.135	20	8.0	20	600	0.25	3.0	6.5
MMSZ5239B	F4	8.645	9.1	9.555	20	10	20	600	0.25	3.0	7.0
MMSZ5240B	F5	9.5	10	10.5	20	17	20	600	0.25	3.0	8.0
MMSZ5241B	H1	10.45	11	11.55	20	22	20	600	0.25	2.0	8.4
MMSZ5242B	H2	11.4	12	12.6	20	30	20	600	0.25	1.0	9.1
MMSZ5243B	H3	12.35	13	13.65	9.5	13	9.5	600	0.25	0.5	9.9
MMSZ5244B	H4	13.3	14	14.7	9.0	15	9.0	600	0.25	0.1	10
MMSZ5245B	H5	14.25	15	15.75	8.5	16	8.5	600	0.25	0.1	11
MMSZ5246B	J1	15.2	16	16.8	7.8	17	7.8	600	0.25	0.1	12
MMSZ5247B	J2	16.15	17	17.85	7.4	19	7.4	600	0.25	0.1	13
MMSZ5248B	J3	17.1	18	18.9	7.0	21	7.0	600	0.25	0.1	14
MMSZ5249B	J4	18.05	19	19.95	6.6	23	6.6	600	0.25	0.1	14
MMSZ5250B	J5	19	20	21	6.2	25	6.2	600	0.25	0.1	15
MMSZ5251B	K1	20.92	22	23.1	5.6	29	5.6	600	0.25	0.1	17
MMSZ5252B	K2	22.8	24	25.2	5.2	33	5.2	600	0.25	0.1	18
MMSZ5253B	K3	23.75	25	26.25	5.0	35	5.0	600	0.25	0.1	19
MMSZ5254B	K4	25.65	27	28.35	4.6	41	4.6	600	0.25	0.1	21
MMSZ5255B	K5	26.6	28	29.4	4.5	44	4.5	600	0.25	0.1	21
MMSZ5256B	M1	28.5	30	31.5	4.2	49	4.2	600	0.25	0.1	23
MMSZ5257B	M2	31.35	33	34.65	3.8	58	3.8	700	0.25	0.1	25
V _F Foward Voltage = 0.9 V Maximum at I _F = 10 mA for all MMSZ5200 series											



MMSZ5226B - MMSZ5257B — Zeners

© 1997 Fairchild Semiconductor Corporation MMSZ5226B - MMSZ5257B Rev. 1.6



MMSZ5226B - MMSZ5257B

— Zeners

FAIRCHILD. TRADEMARKS The following includes registered and unregistered trademarks and service marks, owned by Fairchild Semiconductor and/or its global subsidiaries, and is not intended to be an exhaustive list of all such trademarks. F-PFS™ **OPTOPLANAR[®]** AccuPower™ AttitudeEngine™ **FRFET**[®] Awinda[®] AX-CAP[®]* Global Power ResourceSM ® TinyBoost® GreenBridge™ TinyBuck® Power Supply WebDesigner™ TinyCalc™ BitSiC™ Green FPS™ PowerTrench Build it Now™ TinyLogic® Green FPS™ e-Series™ PowerXS™ CorePI US™ Gmax™ TINYOPTO™ Programmable Active Droop™ GTO™ CorePOWER™ TinyPower™ QFĔT CROSSVOLT™ IntelliMAX™ TinyPWM™ QS™ TinvWire™ CTL™ ISOPI ANAR™ Quiet Series™ Current Transfer Logic™ TranSiC™ Making Small Speakers Sound Louder RapidConfigure™ TriFault Detect™ **DEUXPEED**[®] and Better Dual Cool™ TRUECURRENT®* MegaBuck™ Saving our world, 1mW/W/kW at a time™ **EcoSPARK[®]** MICROCOUPLER™ μSerDes™ SignalWise™ EfficientMax™ MicroFET™ SmartMax™ MicroPak™ ESBC™ SMART START™ MicroPak2™ F UHC Solutions for Your Success™ MillerDrive™ Ultra FRFET™ Fairchild® SPM[®] MotionMax™ UniFET™ Fairchild Semiconductor® STEALTH™ MotionGrid® VCX™ FACT Quiet Series™ SuperFET[®] MTi[®] VisualMax™ FACT SuperSOT™-3 MTx® VoltagePlus™ FastvCore™ SuperSOT™-6 MVN® XS™ FETBench™ SuperSOT™-8 mWSaver® Xsens™ SupreMOS[®] **FPS™** OptoHiT™ 仙童® SyncFET™ **OPTOLOGIC[®]** Sync-Lock™

* Trademarks of System General Corporation, used under license by Fairchild Semiconductor.

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION, OR DESIGN. TO OBTAIN THE LATEST, MOST UP-TO-DATE DATASHEET AND PRODUCT INFORMATION, VISIT OUR WEBSITE AT <u>HTTP:///WWW.FAIRCHILDSEMI.COM</u>. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS. THESE SPECIFICATIONS DO NOT EXPAND THE TERMS OF FAIRCHILD'S WORLDWIDE TERMS AND CONDITIONS, SPECIFICALLY THE WARRANTY THEREIN, WHICH COVERS THESE PRODUCTS.

AUTHORIZED USE

Unless otherwise specified in this data sheet, this product is a standard commercial product and is not intended for use in applications that require extraordinary levels of quality and reliability. This product may not be used in the following applications, unless specifically approved in writing by a Fairchild officer: (1) automotive or other transportation, (2) military/aerospace, (3) any safety critical application – including life critical medical equipment – where the failure of the Fairchild product reasonably would be expected to result in personal injury, death or property damage. Customer's use of this product is augement of this Authorized Use policy. In the event of an unauthorized use of Fairchild's product, Fairchild accepts no liability in the event of product failure. In other respects, this product shall be subject to Fairchild's Worldwide Terms and Conditions of Sale, unless a separate agreement has been signed by both Parties.

ANTI-COUNTERFEITING POLICY

Fairchild Semiconductor Corporation's Anti-Counterfeiting Policy. Fairchild's Anti-Counterfeiting Policy is also stated on our external website, www.fairchildsemi.com, under Terms of Use

Counterfeiting of semiconductor parts is a growing problem in the industry. All manufacturers of semiconductor products are experiencing counterfeiting of their parts. Customers who inadvertently purchase counterfeit parts experience many problems such as loss of brand reputation, substandard performance, failed applications, and increased cost of production and manufacturing delays. Fairchild is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. Fairchild strongly encourages customers to purchase Fairchild parts either directly from Fairchild or from Authorized Fairchild Distributors who are listed by country on our web page cited above. Products customers buy either from Fairchild directly or from Authorized Fairchild Distributors are genuine parts, have full traceability, meet Fairchild's quality standards for handling and storage and provide access to Fairchild's full range of up-to-date technical and product information. Fairchild and our Authorized Distributors will stand behind all warranties and will appropriately address any warranty issues that may arise. Fairchild will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. Fairchild is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

PRODUCT STATUS DEFINITIONS

Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.

Rev. 177

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Fairchild Semiconductor: MMSZ5253B MMSZ5253B_Q