



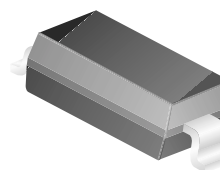
Zeners

MMSZ5226B - MMSZ5257B

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation @ 25°C	500	mW
R _{θJA}	Thermal Resistance, Junction to Ambient **	340	°C/W
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _J	Operating Junction Temperature	+ 150	°C



SOD-123

*These ratings are limiting values above which serviceability of any semiconductor may be impaired.

**FR-4 or FR-5 = 3.5 x 1.5 inches using minimum recommended land pads.

Electrical Characteristics

T_A = 25°C unless otherwise noted

Device	Mark	V _Z (V)	Z _Z (Ω) @ I _Z (mA)	Z _{ZK} (Ω) @ I _{ZK} (mA)	I _R (μA) @ V _R (V)
MMSZ 5226B	D1	3.3	28 20	1,600 0.25	25 1.0
MMSZ 5227B	D2	3.6	24 20	1,700 0.25	15 1.0
MMSZ 5228B	D3	3.9	23 20	1,900 0.25	10 1.0
MMSZ 5229B	D4	4.3	22 20	1,000 0.25	5.0 1.0
MMSZ 5230B	D5	4.7	19 20	1,900 0.25	5.0 2.0
MMSZ 5231B	E1	5.1	17 20	1,600 0.25	5.0 2.0
MMSZ 5232B	E2	5.6	11 20	1,600 0.25	5.0 3.0
MMSZ 5233B	E3	6.0	7.0 20	1,600 0.25	5.0 3.5
MMSZ 5234B	E4	6.2	7.0 20	1,000 0.25	5.0 4.0
MMSZ 5235B	E5	6.8	5.0 20	750 0.25	3.0 5.0
MMSZ 5236B	F1	7.5	6.0 20	500 0.25	3.0 6.0
MMSZ 5237B	F2	8.2	8.0 20	500 0.25	3.0 6.5
MMSZ 5238B	F3	8.7	8.0 20	600 0.25	3.0 6.5
MMSZ 5239B	F4	9.1	10 20	600 0.25	3.0 7.0
MMSZ 5240B	F5	10	17 20	600 0.25	3.0 8.0
MMSZ 5241B	H1	11	22 20	600 0.25	2.0 8.4
MMSZ 5242B	H2	12	30 20	600 0.25	1.0 9.1
MMSZ 5243B	H3	13	13 9.5	600 0.25	0.5 9.9
MMSZ 5244B	H4	14	15 9.0	600 0.25	0.1 10
MMSZ 5245B	H5	15	16 8.5	600 0.25	0.1 11
MMSZ 5246B	J1	16	17 7.8	600 0.25	0.1 12
MMSZ 5247B	J2	17	19 7.4	600 0.25	0.1 13
MMSZ 5248B	J3	18	21 7.0	600 0.25	0.1 14
MMSZ 5249B	J4	19	23 6.6	600 0.25	0.1 14
MMSZ 5250B	J5	20	25 6.2	600 0.25	0.1 15
MMSZ 5251B	K1	22	29 5.6	600 0.25	0.1 17
MMSZ 5252B	K2	24	33 5.2	600 0.25	0.1 18
MMSZ 5253B	K3	25	35 5.0	600 0.25	0.1 19
MMSZ 5254B	K4	27	41 4.6	600 0.25	0.1 21
MMSZ 5255B	K5	28	44 4.5	600 0.25	0.1 21
MMSZ 5256B	M1	30	49 4.2	600 0.25	0.1 23
MMSZ 5257B	M2	33	58 3.8	700 0.25	0.1 25

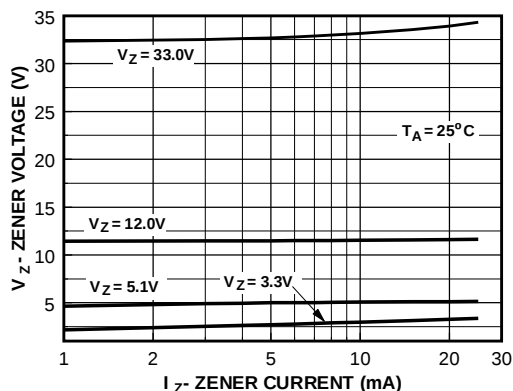
V_F Forward Voltage= 0.9 V Maximum @ I_F = 10 mA for all MMSZ 5200 series

Zeners (MMSZ5226B - MMSZ5257B)

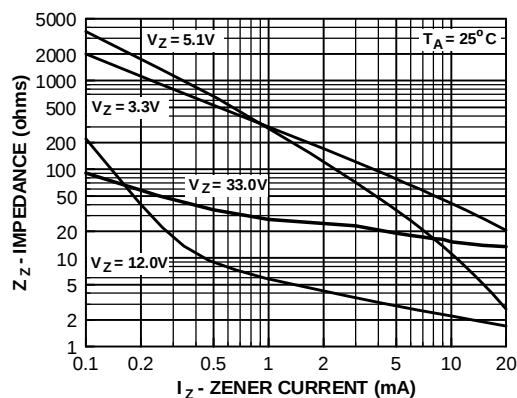
Zeners (MMSZ5226B - MMSZ5257B)

(continued)

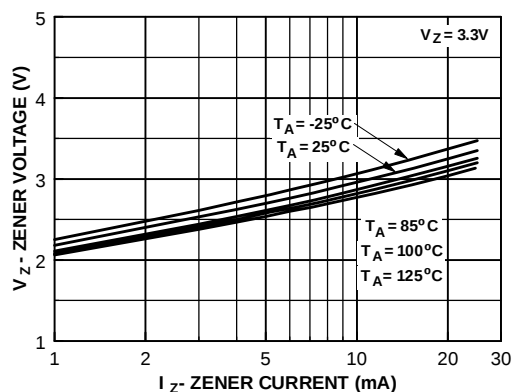
Typical Characteristics



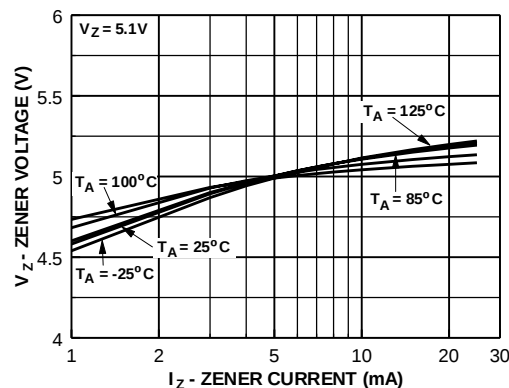
Zener Current vs. Zener Voltage



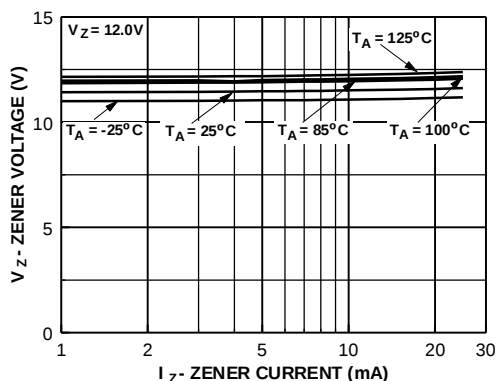
Zener Current vs. Zener Impedance



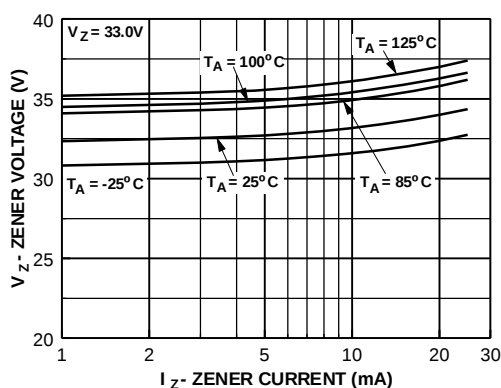
3.3 Zener Voltage vs. Temperature



5.1 Zener Voltage vs. Temperature



12 Zener Voltage vs. Zener Temperature



33 Zener Voltage vs. Zener Temperature

TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACE ^{Ex} TM	FAST [®]	OPTOLOGIC TM	SMART START TM	VCX TM
Bottomless TM	FAST ^r TM	OPTOPLANAR TM	STAR*POWER TM	
CoolFET TM	FRFET TM	PACMAN TM	Stealth TM	
CROSSVOLT TM	GlobalOptoisolator TM	POP TM	SuperSOT TM -3	
DenseTrench TM	GTO TM	Power247 TM	SuperSOT TM -6	
DOME TM	HiSeC TM	PowerTrench [®]	SuperSOT TM -8	
EcoSPARK TM	ISOPLANAR TM	QFET TM	SyncFET TM	
E ² CMOS TM	LittleFET TM	QS TM	TinyLogic TM	
EnSigna TM	MicroFET TM	QT Optoelectronics TM	TruTranslation TM	
FACT TM	MicroPak TM	Quiet Series TM	UHC TM	
FACT Quiet Series TM	MICROWIRE TM	SILENT SWITCHER [®]	UltraFET [®]	

STAR*POWER is used under license

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. 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.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

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