

LOW VOLTAGE AVALANCHE DIODE
PRODUCT PREVIEW
FEATURES

- LOW ZENER NOISE SPECIFIED
- LOW ZENER IMPEDANCE
- LOW LEAKAGE CURRENT
- SOD323 PACKAGE

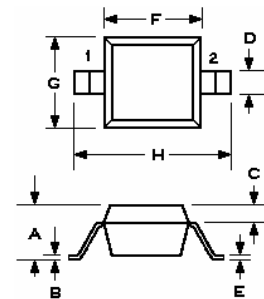
MAXIMUM RATINGS

- OPERATING TEMPERATURE: -55°C TO +150°C
- STORAGE TEMPERATURE: -55°C TO +150°C
- POWER: 200mW

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C
 Unless otherwise specified

PART NUMBER (NOTE 1)	DEVICE MARKING	NOMINAL ZENER VOLTAGE V_Z @ I_Z VOLTS (NOTE 2)	TEST CURRENT I_{mAc}	MAX ZENER IMPEDANCE B-C D SUFFIX Z_{11} @ I_Z OHMS (NOTE 3)	MAX. REVERSE LEAKAGE CURRENT			B C D SUFFIX MAXIMUM DC ZENER CURRENT I_{mAc} (NOTE 5)	B C D SUFFIX MAX. NOISE DENSITY AT $I_Z=250 \mu A$ N_{60} (MICRO-VOLTS PER SQUARE ROOT CYCLE)	REGULATION FACTOR % V_Z VOLTS (NOTE 6)	LOW V_Z CURRENT I_{mAc}
					I_L μA dc	V_R - VOLTS					
						NON & A SUFFIX	B C D SUFFIX				
MM3Z5518		33	20	26	50	09	10	57.5	05	0.90	20
MM3Z5519		36	20	24	30	09	10	52.5	05	0.90	20
MM3Z5520		39	20	22	10	09	10	48.0	05	0.85	20
MM3Z5521		43	20	18	30	10	15	43.0	05	0.75	20
MM3Z5522		47	10	22	20	15	20	40.5	05	0.60	10
MM3Z5523		51	50	26	20	20	25	37.5	05	0.65	0.25
MM3Z5524		56	30	30	20	30	35	34.0	10	0.30	0.25
MM3Z5525		62	10	30	10	45	50	30.5	10	0.20	0.01
MM3Z5526		68	10	30	10	55	62	28.0	10	0.10	0.01
MM3Z5527		75	10	35	05	60	68	25.5	20	0.05	0.01
MM3Z5528		82	10	40	05	65	75	23.0	40	0.05	0.01
MM3Z5529		91	10	45	01	70	82	21.0	40	0.05	0.01
MM3Z5530		100	10	60	005	80	91	19.0	40	0.10	0.01
MM3Z5531		110	10	80	005	90	99	17.5	50	0.20	0.01
MM3Z5532		120	10	90	005	95	108	16.0	10	0.20	0.01
MM3Z5533		130	10	90	001	105	117	14.5	15	0.20	0.01
MM3Z5534		140	10	100	001	115	126	13.5	20	0.20	0.01
MM3Z5535		150	10	100	001	125	135	12.5	20	0.20	0.01
MM3Z5536		160	10	100	001	130	144	12.0	20	0.20	0.01
MM3Z5537		170	10	100	001	140	153	11.0	20	0.20	0.01
MM3Z5538		180	10	100	001	150	162	10.5	20	0.20	0.01
MM3Z5539		190	10	100	001	160	171	10.0	20	0.20	0.01
MM3Z5540		200	10	100	001	170	180	9.5	20	0.20	0.01
MM3Z5541		220	10	100	00	180	198	8.5	20	0.20	0.01
MM3Z5542		240	10	100	001	200	216	8.0	20	0.30	0.01
MM3Z5543		250	10	100	001	210	224	7.5	20	0.35	0.01
MM3Z5544		280	10	100	001	230	252	7.0	20	0.40	0.01
MM3Z5545		300	10	100	001	240	270	6.5	20	0.45	0.01
MM3Z5546		330	10	100	001	260	297	6.0	20	0.50	0.01

SOD323 PACKAGE

PACKAGE DIMENSIONS


DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	-	.043	-	1.092
B	-	.004	-	.102
C	-	.006	-	.152
D	.010	.016	.254	.406
E	.003	.006	.076	.152
F	.063	.075	1.600	1.905
G	.045	.057	1.143	1.448
H	.094	.106	2.388	2.692

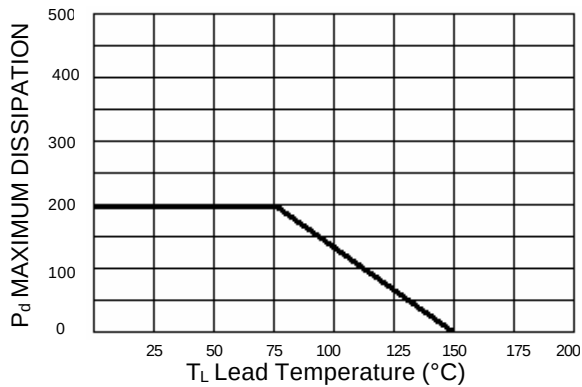
NOTES

1	TOLERANCE AND VOLTAGE DESIGNATION: The type part numbers shown are +/- 20 % with guaranteed limits for only V_Z , I_R and V_F . Units with A suffix are +/- 10% with guaranteed limits for only V_Z , I_R and V_F . Units with guaranteed limits for all six parameters are indicated by a B suffix for +/- 5.0% units. C suffix for +/- 2.0% and D suffix for +/- 1.0%.
2	ZENER (V_Z) VOLTAGE MEASUREMENT: Nominal zener voltage is measured with the device junction in thermal equilibrium with ambient temperature of 25°C at the specified current of I_{ZT} .
3	ZENER IMPEDANCE (Z_Z) DERIVATION: The zener impedance is derived from the 60 Hz voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT}) is superimposed on I_{ZT} .
4	REVERSE LEAKAGE CURRENT (I_R): Reverse leakage current is guaranteed and measured at V_R as shown on the table.
5	MAXIMUM REGULATOR CURRENT (I_{ZM}): The maximum current shown is based on the maximum voltage of a 5.0% type unit; therefore, it applies only to the B C, or D suffix devices. The actual I_{ZM} for any devices may not exceed the value of 200 milliwatts divided by the actual V_Z of the device.
6	MAXIMUM REGULATION FACTOR ($\% V_Z$): $\% V_Z$ is the maximum difference between V_Z at I_{ZT} and V_Z at I_{ZL} measured with the device junction in thermal equilibrium.

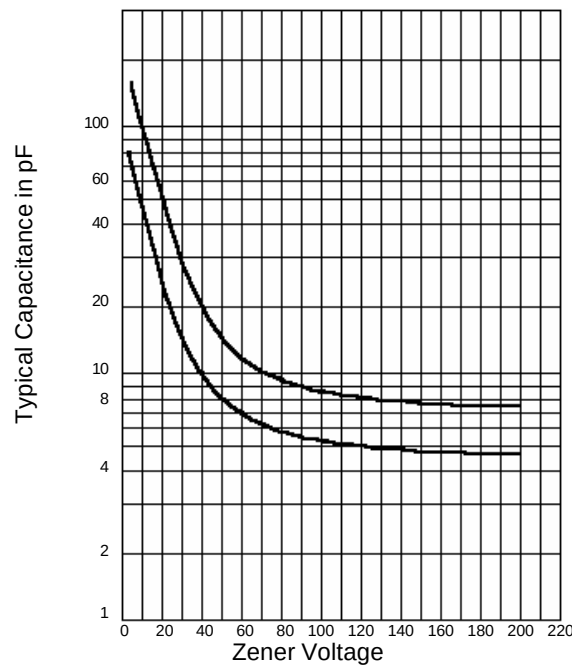
LOW VOLTAGE AVALANCHE DIODE

PRODUCT PREVIEW

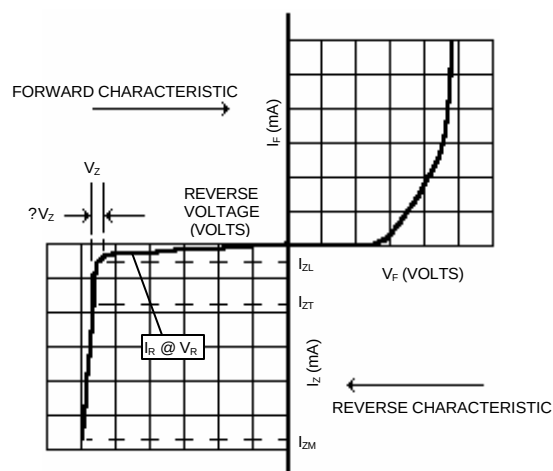
GRAPHS



**POWER-TEMPERATURE
DERATING CURVE**



**CAPACITANCE VS. ZENER VOLTAGE
(TYPICAL)**



**ZENER DIODE CHARACTERISTICS
AND SYMBOL IDENTIFICATION**