



INTERNATIONAL SEMICONDUCTOR, INC.

GENERAL PURPOSE DIODES

1N200 thru 1N222

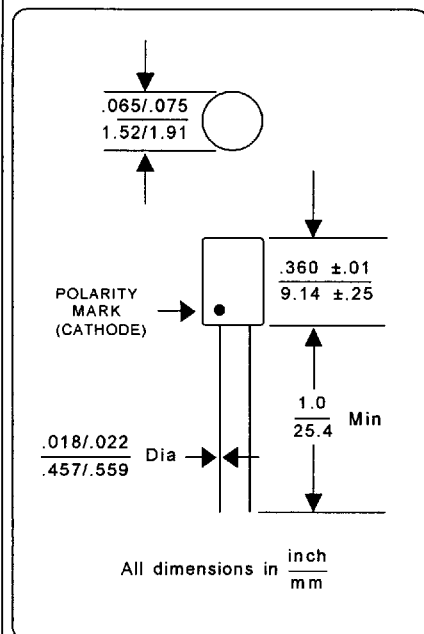
SINGLE ENDED CAN

ELECTRICAL CHARACTERISTICS at 25°C

JEDEC Part Number	Maximum Reverse Working Voltage V_{RRM} Volts	Breakdown Voltage		Forward Current		Reverse Current at V_{RRM} Max		Diode Capacitance at $V_R=6$ Volts C_{avg} pF
		V_{BR} Min Volts	I_{BR} mA	I_F Min mA	V_F Volts	25°C	100°C	
						I_R uA	I_R uA	
1N200	6.8	7.5	0.2	50	1	0.5	5	(1) 50
1N201	8.2	9	0.2	35	1	0.5	5	35
1N202	10	11	0.2	30	1	0.5	5	30
1N203	12	13.5	0.2	23	1	0.5	5	28
1N204	15	17	0.2	17	1	0.5	5	25
1N205	18	20	0.2	12	1	0.1	10	20
1N206	22	25	0.2	9	1	0.1	10	15
1N207	27	30	0.2	7	1	0.1	10	12
1N208	33	37	0.2	5.5	1	0.1	10	10
1N209	39	43	0.2	4.5	1	0.1	10	8
1N210	47	52	0.2	3.5	1	0.1	10	6
1N211	56	62	0.2	2.7	1	1.0	50	5.6
1N212	68	75	0.2	2.0	1	1.0	50	5.2
1N213	82	90	0.2	1.5	1	1.0	50	4.8
1N214	100	110	0.2	1.2	1	1.0	50	4.5
1N215	120	135	0.2	0.9	1	1.0	50	4.2
1N216	150	170	0.1	0.7	4	5.0	100	3.8
1N217	180	200	0.1	6.5	4	5.0	100	3.5
1N218	220	250	0.1	6.0	4	5.0	100	3.2
1N219	270	300	0.1	3.0	4	5.0	100	3.0
1N220	330	370	0.1	2.2	4	5.0	100	2.8
1N221	390	430	0.1	2.0	4	5.0	100	2.6
1N222	470	520	0.1	1.5	4	5.0	100	2.4

MAXIMUM RATINGS: Forward Current (2)

Part No.	I_F - Half Wave Peak - mA	I_F - Steady State dc or rms value	I_o - Average Rectified Current - mA
1N200	260	130	85
1N201	230	115	77
1N202	210	105	70
1N203	190	95	63
1N204	170	85	56
1N205	150	75	50
1N206	135	67	45
1N207	120	60	40
1N208	105	52	35
1N209	95	45	30
1N210	85	42	27
1N211	72	36	23
1N212	60-	30	19
1N213	50	25	16
1N214	40	20	12.5
1N215	35	17	11
1N216	30	15	9.5
1N217	28	14	9.0
1N218	26	13	8.0
1N219	24	12	7.5
1N220	22	11	7.0
1N221	20	10	6.0
1N222	18	9	5.5



DESIGN DATA

CASE: Hermetically sealed glass diode inside metal can and epoxy filled.

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin Plate

THERMAL RESISTANCE:

$R_{\theta Jc}$ at 3/8" lead spacing = 250 °C/W maximum

POLARITY: Diode to be operated with the marked (cathode) lead positive with respect to the other lead

WEIGHT: 0.14 Grams

MOUNTING POSITION: Any

MAX OPERATING TEMP: -65°C to +150°C

STORAGE TEMP RANGE: -65°C to +200°C

NOTES:

1. Measured at $V_R = 2V$

2. These ratings are based upon maximum dissipation rating of 150 mW at 25°C Ambient. The derating schedule for elevated ambient is 1 mW per °C above 25°C.