MZF 2.7 THRU MZF 33

LEAD MOUNTED SILICON RECTIFIERS

50-1000 VOLTS DIFFUSED JUNCTION

500 Milliwatt surmetic 20 silicon zener diodes – a complete series of Zener Diodes in the popular DO-7 case in an axial-lead, transfer-molded plastic package offering protection in all common environmental conditions.

MAXIMUM RATINGS

Junction and Storage Temperature: –65 to +200°C

Lead Temperature not less than 1/16" from the case for 10 seconds: 230°C

DC Power Dissipation: 500 mW @ Ti = 75°C, Lead Length = $\frac{3}{8}$"
(Derate 4.0 mW/ C above 75°C)

Surge Power: 10 Watts (Non-recurrent square wave @ PW = 8.3 ms, T = 55°C
Figure 16)

MECHANICAL CHARACTERISTICS

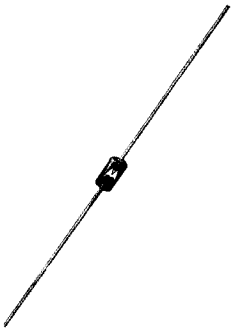
CASE: Void free, transfer molded, thermosetting plastic.

FINISH: All external surfaces are corrosion resistant. Leads are readily solderable and weldable.

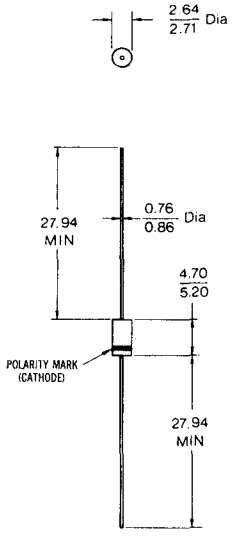
POLARITY: Cathode indicate by color band. When operated in zener mode, cathode will be positive with respect to anode.

MOUNTING POSITION: Any.

WEIGHT: 0.18 gram (approximately).



Motorola Typ No.	Zener Voltage at Test Current Volt min	max	Zener impedance at Test Current max Ω	Test Current mA	Reverse Voltage for IR = 1 μ A V	Max Zener Current mA	Zener Voltage Temp. Coeff. Typ. % °C
MZF 2,7	2,5	2,9	80	5	–	117	–0,080
3,0	2,8	3,2	80	5	–	102	–0,075
3,3	3,1	3,5	80	5	–	91	–0,070
3,6	3,4	3,8	80	5	–	84	–0,065
3,9	3,7	4,1	80	5	–	77	–0,060
4,3	4,0	4,6	75	5	–	69	±0,055
4,7	4,4	5,0	70	5	–	65	±0,030
5,1	4,8	5,4	60	5	–	61	±0,030
5,6	5,3	6,0	40	5	1,0	58	+0,038
6,2	5,8	6,6	10	5	1,0	53	+0,045
6,8	6,4	7,2	8,0	5	2,0	48	+0,050
7,5	7,1	7,9	7,0	5	2,0	44	+0,058
8,2	7,7	8,7	7,0	5	3,5	39	+0,062
9,1	8,5	9,6	10	5	3,5	36	+0,068
10	9,4	10,6	15	5	5,0	33	+0,075
11	10,4	11,6	20	5	5,0	30	+0,076
12	11,4	12,7	20	5	7,0	27	+0,077
13	12,5	14,0	25	5	7,0	24	+0,079
15	13,8	15,5	30	5	10	22,5	+0,082
16	15,3	17,0	40	5	10	20	+0,083
18	16,8	19,0	55	5	10	18	+0,085
20	18,8	21,0	55	5	10	16,5	+0,086
22	20,8	23,0	55	5	12	15	+0,087
24	22,8	25,6	80	5	12	13	+0,088
27	25,4	28,6	80	5	14	12	+0,090
30	28,4	31,6	80	5	14	10,5	+0,091
33	31,3	34,5	80	5	17	9,5	+0,092



CASE 59

Dimensions in millimeters