RD2.0FM-RD120FM

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE RANGE: 2.0 - 120V
POWER: 1.0Watts

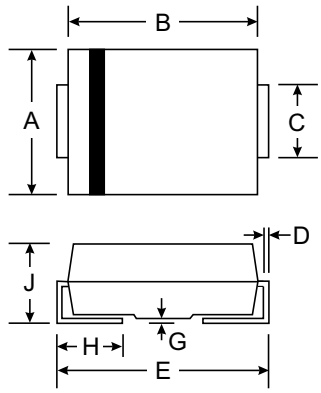
Features

- Complete voltage range 2.0 to 120 volts
- High peak reverse power dissipation
- High reliability
- Low leakage current
- Standard zener voltage tolerance is ± 5%.

Mechanical Data

- Case : SMA (DO-214AC) Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Lead formed for Surface mount
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight: 0.064 grams (approx.)

RoHS COMPLIANT



SMA(DO-214AC)		
Dim	**Min**	**Max**
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings T_A = 25°C unless otherwise specified

Rating	Symbol	Value	Unit
Power Dissipation , See Fig. 1	P_D	1.0	W
Forward Current	I_F	200	mA
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	- 55 to + 150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Type Number	Zener Voltage V_Z (V)[1]			Dynamic Impedance Z_Z (Ω)[2]		Reverse Current I_R (μA)	
	Min.	Max.	I_Z (mA)	Max.	Iz (mA)	Max.	V_R (V)
RD2.0FM	1.9	2.2	5	140	5	200	0.5
RD2.2FM	2.1	2.4	5	140	5	200	0.7
RD2.4FM	2.3	2.6	5	140	5	200	1.0
RD2.7FM	2.5	2.9	5	140	5	150	1.0
RD3.0FM	2.8	3.2	5	140	5	100	1.0
RD3.3FM	3.1	3.5	5	140	5	80	1.0
RD3.6FM	3.4	3.8	5	140	5	60	1.0
RD3.9FM	3.7	4.1	5	140	5	40	1.0
RD4.3FM	4.0	4.5	5	140	5	20	1.0
RD4.7FM	4.4	4.9	5	100	5	20	1.0
RD5.1FM	4.8	5.4	5	100	5	20	1.0
RD5.6FM	5.3	6.0	5	70	5	20	1.5
RD6.2FM	5.8	6.6	5	40	5	20	3.0
RD6.8FM	6.4	7.2	5	25	5	20	3.5
RD7.5FM	7.0	7.9	5	25	5	20	4.0
RD8.2FM	7.7	8.7	5	25	5	20	5.0
RD9.1FM	8.5	9.6	5	25	5	20	6.0
RD10FM	9.4	10.6	5	20	5	10	7.0
RD11FM	10.4	11.6	5	20	5	10	8.0
RD12FM	11.4	12.6	5	25	5	10	9.0
RD13FM	12.4	14.1	5	30	5	10	10
RD15FM	13.8	15.6	5	30	5	10	11
RD16FM	15.3	17.1	5	40	5	10	12
RD18FM	16.8	19.1	5	45	5	10	13
RD20FM	18.8	21.2	5	55	5	10	15
RD22FM	20.8	23.3	2	55	2	10	17
RD24FM	22.8	25.6	2	70	2	10	19
RD27FM	25.1	28.9	2	80	2	10	21
RD30FM	28.0	32.0	2	80	2	10	23
RD33FM	31.0	35.0	2	80	2	10	25
RD36FM	34.0	38.0	2	90	2	10	27
RD39FM	37.0	41.0	2	130	2	10	30
RD43FM	40.0	45.0	2	150	2	5	33
RD47FM	44.0	49.0	2	170	2	5	36
RD51FM	48.0	54.0	2	220	2	5	39
RD56FM	53.0	60.0	2	220	2	5	43
RD62FM	58.0	66.0	2	220	2	5	47
RD68FM	64.0	72.0	2	230	2	5	52
RD75FM	70.0	79.0	2	250	2	5	57
RD82FM	77.0	87.0	2	270	2	5	63
RD91FM	85.0	96.0	2	340	2	5	69
RD100FM	94.0	106.0	2	430	2	5	76
RD110FM	104.0	116.0	2	530	2	5	84
RD120FM	114.0	126.0	2	620	2	5	91

Notes:

(1) Test with pulse (40 ms).

(2) Z_Z is measured at I_Z given an very small A.C. Current Signal.