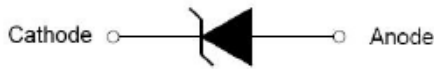


SMA

Features

High forward surge capability
 Glass passivated junction
 Low Zener Impedance
 Power Dissipation of 2000mW
 High Stability and High Reliability
 Halogen free and RoHS compliant

Mechanical Data

CASE: SMAJ(DO-214AC) Molded Plastic
 Polarity: Color band denotes cathode end
 Mounting position: ANY
 Weight: 0.0025 ounces, 0.071 gram

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SMA	Tape/Reel, 7" reel	2000	EIA-481-1

Maximum Ratings & Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Rating	Symbol	Value	Unit
DC Power Dissipation at T _L = 50 °C (Note1)	P _d	2	Watts
Maximum Forward Voltage at I _F = 200 mA	V _F	1.2	Volts
Junction Temperature Range	T _J	- 55 to + 150	°C
Storage Temperature Range	T _s	- 55 to + 150	°C

Note : (1) T_L = Lead temperature at 5.0 mm² (0.013 mm thick) copper land areas.

Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

TYPE	MARKING	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V _Z @ I _{ZT}	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		I _{ZM}
		(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
1SMA2C3P3	2C3P3	3.3	150	5.0	400	1.0	80	1.0	545
1SMA2C3P6	2C3P6	3.6	139	5.0	400	1.0	80	1.0	504
1SMA2C3P9	2C3P9	3.9	128	5.0	400	1.0	50	1.0	468
1SMA2C4P3	2C4P3	4.3	116	4.5	400	1.0	50	1.0	434
1SMA2C4P7	2C4P7	4.7	106	4.5	550	1.0	50	1.0	386
1SMA2C5P1	2C5P1	5.1	98.0	3.5	600	1.0	50	1.0	356
1SMA2C5P6	2C5P6	5.6	89.5	2.5	500	1.0	50	2.0	324
1SMA2C6P2	2C6P2	6.2	80.5	1.5	700	1.0	50	3.0	292
1SMA2C6P5	2C6P5	6.5	77.0	1.7	700	1.0	50	3.5	278
1SMA2C6P8	2C6P8	6.8	73.5	2.0	700	1.0	50	4.0	266
1SMA2C7P5	2C7P5	7.5	66.5	2.0	700	0.5	50	5.0	242
1SMA2C8P2	2C8P2	8.2	61.0	2.3	700	0.5	50	6.0	220
1SMA2C9P1	2C9P1	9.1	55.0	2.5	700	0.5	50	7.0	200
1SMA2C10	2C10	10	50.0	3.5	700	0.25	50	7.6	182
1SMA2C11	2C11	11	45.5	4.0	700	0.25	50	8.4	166
1SMA2C12	2C12	12	41.5	4.5	700	0.25	1.0	9.1	152
1SMA2C13	2C13	13	38.5	5.0	700	0.25	0.5	9.9	138
1SMA2C14	2C14	14	35.7	5.5	700	0.25	0.5	10.6	130
1SMA2C15	2C15	15	33.4	7.0	700	0.25	0.5	11.4	122
1SMA2C16	2C16	16	31.2	8.0	700	0.25	0.5	12.2	114
1SMA2C17	2C17	17	29.4	9.0	750	0.25	0.5	13.0	107
1SMA2C18	2C18	18	27.8	10	750	0.25	0.5	13.7	100
1SMA2C19	2C19	19	26.3	11	750	0.25	0.5	14.4	95
1SMA2C20	2C20	20	25.0	11	750	0.25	0.5	15.2	90
1SMA2C22	2C22	22	22.8	12	750	0.25	0.5	16.7	82
1SMA2C24	2C24	24	20.8	13	750	0.25	0.5	18.2	76
1SMA2C27	2C27	27	18.5	18	750	0.25	0.5	20.6	68

TYPE	MARKING	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		Vz @ IzT	IzT	ZzT @ IzT	Zzk @ Izk	Izk	IR @ VR		IzM
		(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
1SMA2C30	2C30	30	16.6	20	1000	0.25	0.5	22.5	60
1SMA2C33	2C33	33	15.1	23	1000	0.25	0.5	25.1	55
1SMA2C36	2C36	36	13.9	25	1000	0.25	0.5	27.4	50
1SMA2C39	2C39	39	12.8	30	1000	0.25	0.5	29.7	47
1SMA2C43	2C43	43	11.6	35	1500	0.25	0.5	32.7	43
1SMA2C47	2C47	47	10.6	40	1500	0.25	0.5	35.8	39
1SMA2C51	2C51	51	9.8	48	1500	0.25	0.5	38.8	36
1SMA2C56	2C56	56	9.0	55	2000	0.25	0.5	42.6	32
1SMA2C62	2C62	62	8.1	60	2000	0.25	0.5	47.1	29
1SMA2C68	2C68	68	7.4	75	2000	0.25	0.5	51.7	27
1SMA2C75	2C75	75	6.7	90	2000	0.25	0.5	56.0	24
1SMA2C82	2C82	82	6.1	100	3000	0.25	0.5	62.2	22
1SMA2C91	2C91	91	5.5	125	3000	0.25	0.5	69.2	20
1SMA2C100	2C100	100	5.0	175	3000	0.25	0.5	76.0	18
1SMA2C110	2C110	110	4.5	250	4000	0.25	0.5	83.6	17
1SMA2C120	2C120	120	4.2	325	4500	0.25	0.5	91.2	15
1SMA2C130	2C130	130	3.8	400	5000	0.25	0.5	98.8	14
1SMA2C140	2C140	140	3.6	500	5500	0.25	0.5	106.4	13
1SMA2C150	2C150	150	3.3	575	6000	0.25	0.5	114.0	12
1SMA2C160	2C160	160	3.1	650	6500	0.25	0.5	121.6	11
1SMA2C170	2C170	170	2.9	675	7000	0.25	0.5	130.4	11
1SMA2C180	2C180	180	2.8	725	7000	0.25	0.5	136.8	10
1SMA2C190	2C190	190	2.6	825	8000	0.25	0.5	144.8	10
1SMA2C200	2C200	200	2.5	900	8000	0.25	0.5	152.0	9.0
1SMA2C220	2C220	220	2.0	2000	8500	0.25	0.5	167.0	8.0
1SMA2C270	2C270	270	1.6	2200	8500	0.25	0.5	205.0	6.7

Ratings and Characteristic Curves

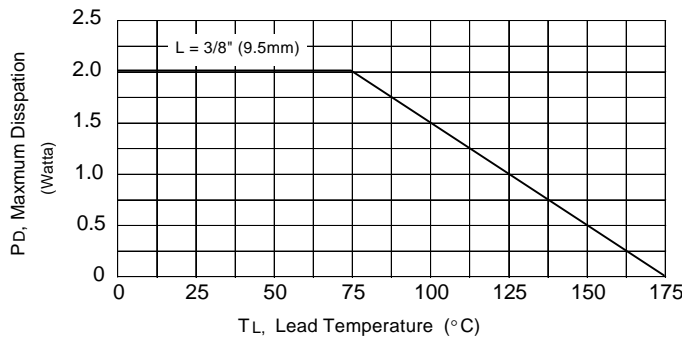


Fig. 1 - Maximum Continuous Power Dissipation

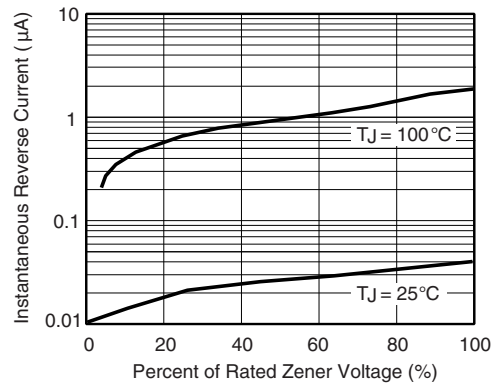


Fig.2 - Typical Reverse Characteristics

Package Outline Dimensions: SMA(DO-214AC)

Dim	Millimeters		Inches	
	Min	Max	Min	Max
L	4.1	4.3	0.161	0.169
D	2.5	2.7	0.098	0.106
D1	1.3	1.5	0.051	0.059
T	4.8	5.2	0.189	0.205
T1	0.9	1.5	0.035	0.060
d	-	0.2	-	0.008
H	2.05	2.35	0.081	0.093
H1	2.0	2.2	0.079	0.087