



THE DATASHEET OF 1SMA4751-GT3TR

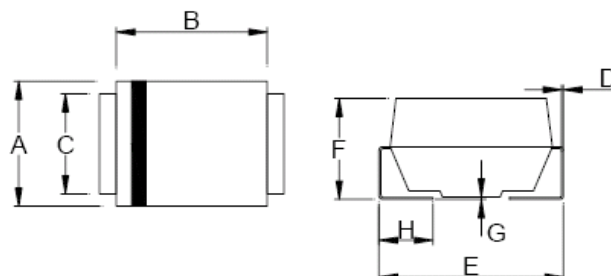
Technical Data

Green Products

Data Sheet N0196, Rev. -

Features

- Glass Passivated Die Construction
- 1.0W Power Dissipation
- 11 –100V Nominal Zener Voltage
- 5% Standard Vz Tolerance
- Low Inductance
- Typical IR Less Than 5.0μA Above 11V
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- Green Products in Compliance with the RoHS Directive
- This is a Pb - Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Data

- Case: JEDEC DO-214AC Low Profile Molded Plastic
- Terminals: 100% Matte Tin Plating, Solderable Per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Device Code (See Table Next Page)
- Weight: 0.064 grams (approx.)

SMA/DO-214AC		
Dim	Min	Max
A	2.50	2.90
B	4.00	4.60
C	1.40	1.60
D	0.152	0.305
E	4.80	5.28
F	2.00	2.44
G	0.051	0.203
H	0.76	1.52
All Dimensions in mm		

Ordering Information

Device	Package	Shipping
1SMA4741-1SMA4764	SMA (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1) Derate Above 25°C	P _d	1.0 8.0	W mW/°C
Forward Voltage @IF = 200mA	V _F	1.2	V
Non repetitive peak surge power dissipation Tp = 100 μs sq.pulse, Tj = 25°C prior to surge	P _{ZSM}	600	W
Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	120	°C/W
Operating and Storage Temperature Range	Tj, T _{STG}	-65 to +150	°C

Note:1.Valid provided that device terminals are kept at ambient temperature

Electrical Characteristics @T_A=25°C unless otherwise specified

Type Number (Note 1)	Device Marking Code	Nominal Zener Voltage (Note 2)	Test Current	Maximum Zener Impedance (Note 3)			Leakage Current		Max. Surge Current 8.3ms
		V _z @ I _{zt}	I _{zt}	Z _{zt} @ I _{zt}	Z _{zk} @ I _{zk}	I _{zk}	I _r	@ V _r	I _{zs}
		(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
1SMA4741-GT3	741B	11	23	8.0	700	0.25	5.0	8.4	414
1SMA4742-GT3	742B	12	21	9.0	700	0.25	5.0	9.1	380
1SMA4743-GT3	743B	13	19	10	700	0.25	5.0	9.9	344
1SMA4744-GT3	744B	15	17	14	700	0.25	5.0	11.4	305
1SMA4745-GT3	745B	16	15.5	16	700	0.25	5.0	12.2	285
1SMA4746-GT3	746B	18	14	20	750	0.25	5.0	13.7	250
1SMA4747-GT3	747B	20	12.5	22	750	0.25	5.0	15.2	225
1SMA4748-GT3	748B	22	11.5	23	750	0.25	5.0	16.7	205
1SMA4749-GT3	749B	24	10.5	25	750	0.25	5.0	18.2	190
1SMA4750-GT3	750B	27	9.5	35	750	0.25	5.0	20.6	170
1SMA4751-GT3	751B	30	8.5	40	1000	0.25	5.0	22.8	150
1SMA4752-GT3	752B	33	7.5	45	1000	0.25	5.0	25.1	135
1SMA4753-GT3	753B	36	7.0	50	1000	0.25	5.0	27.4	125
1SMA4754-GT3	754B	39	6.5	60	1000	0.25	5.0	29.7	115
1SMA4755-GT3	755B	43	6.0	70	1500	0.25	5.0	32.7	110
1SMA4756-GT3	756B	47	5.5	80	1500	0.25	5.0	35.8	95
1SMA4757-GT3	757B	51	5.0	95	1500	0.25	5.0	38.8	90
1SMA4758-GT3	758B	56	4.5	110	2000	0.25	5.0	42.6	80
1SMA4759-GT3	759B	62	4.0	125	2000	0.25	5.0	47.1	70
1SMA4760-GT3	760B	68	3.7	150	2000	0.25	5.0	51.7	65
1SMA4761-GT3	761B	75	3.3	175	2000	0.25	5.0	56.0	60
1SMA4762-GT3	762B	82	3.0	200	3000	0.25	5.0	62.2	55
1SMA4763-GT3	763B	91	2.8	250	3000	0.25	5.0	69.2	50
1SMA4764-GT3	764B	100	2.5	350	3000	0.25	5.0	76.0	45

- Note: 1. Type numbers listed have standard tolerance on the nominal Zener voltage of ±5%.
2. Measured under thermal equilibrium and DC (I_{zt}) test conditions.
3. The Zener impedance is derived from the 60Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{zt} or I_{zk}) is superimposed on I_{zt} or I_{zk}. Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.



ORDERING INFORMATION

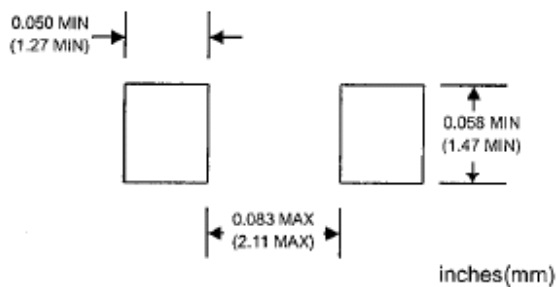
Product No.*	Package Type	Shipping Quantity
1SMA47xx-GT3	SMA	5000/Tape & Reel

Products listed in **bold** are Sensitron **Preferred** devices.

*T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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