

SMA5C5V1~SMA5C39

ZENER DIODES

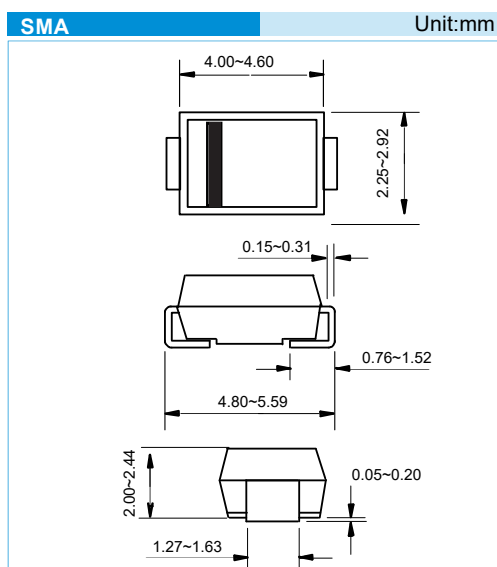
VOLTAGE	5.1 to 39 Volt	POWER	3.0 Watt
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FEATURES

- Glass Passivated Junction
- High reliability
- Zener Voltage From 5.1V to 39V
- Excellent Clamping Capability
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
Power Dissipation	P_D	3	Watts
Maximum Forward Voltage at $I_F=200mA$	V_F	1.2	Volts
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	°C

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ELECTRICAL CHARACTERISTICS @25°C

Type	Device marking	V _{Znom}	V _{Zmin}	V _{Zmax}	I _{ZT} for r _{zjT}		r _{zjk} at I _{ZK}		I _R at V _R	
		V	V		mA	Ω	Ω	mA	μA	V
SMA5C5V1	C5V1	5.1	4.8	5.4	45	<10	<500	1	<1	1.5
SMA5C5V6	C5V6	5.6	5.2	6.0	45	<7	<400	1	<1	2
SMA5C6V2	C6V2	6.2	5.8	6.6	35	<4	<300	1	<1	3
SMA5C6V8	C6V8	6.8	6.4	7.2	35	<3.5	<300	1	<1	4
SMA5C7V5	C7V5	7.5	7.0	7.9	35	<3	<200	0.5	<1	4.5
SMA5C8V2	C8V2	8.2	7.7	8.7	25	<5	<200	0.5	<1	6.2
SMA5C9V1	C9V1	9.1	8.5	9.6	25	<5	<200	0.5	<1	6.8
SMA5C10	C10	10	9.4	10.6	25	<7	<200	0.5	<0.5	7.0
SMA5C11	C11	11	10.4	11.6	20	<8	<300	0.5	<0.5	8.2
SMA5C12	C12	12	11.4	12.7	20	<9	<350	0.5	<0.5	9.1
SMA5C13	C13	13	12.4	14.1	20	<10	<400	0.5	<0.5	10
SMA5C15	C15	15	13.8	15.6	15	<15	<500	0.5	<0.5	11
SMA5C16	C16	16	15.3	17.1	15	<15	<500	0.5	<0.5	12
SMA5C18	C18	18	16.8	19.1	15	<20	<500	0.5	<0.5	13
SMA5C20	C20	20	18.8	21.2	10	<24	<600	0.5	<0.5	15
SMA5C22	C22	22	20.8	23.3	10	<25	<600	0.5	<0.5	16
SMA5C24	C24	24	22.8	25.6	10	<25	<600	0.5	<0.5	18
SMA5C27	C27	27	25.1	28.9	8	<30	<750	0.25	<0.5	20
SMA5C30	C30	30	28	32	8	<30	<1000	0.25	<0.5	22
SMA5C33	C33	33	31	35	8	<35	<1000	0.25	<0.5	24
SMA5C36	C36	36	34	38	8	<40	<1000	0.25	<0.5	27
SMA5C39	C39	39	37	41	6	<50	<1000	0.25	<0.5	30

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SMA5C5V1~SMA5C39	SMA	13 Inch	5000