



# DZ23C2V7 THRU DZ23C51

## Dual Surface Mount Zener Diode



Voltage Range  
2.7 to 51 Volts  
300m Watts Power Dissipation

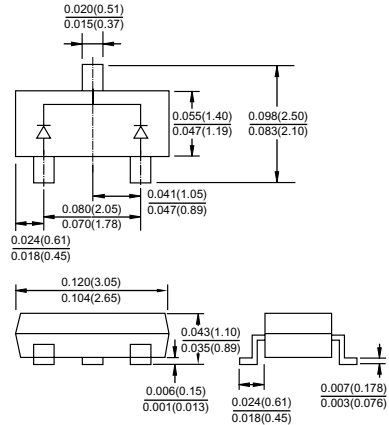
### SOT-23

### Features

- ✧ Dual zeners in common cathode configuration
- ✧ 300 mW power dissipation
- ✧ Ideally suited for automated insertion
- ✧  $\Delta V_z$  for both diodes in one case is  $\leq 5\%$
- ✧ Common anode style available see AZ series

### Mechanical Data

- ✧ Case: SOT-23, Molded plastic
- ✧ Terminals: Solderable per MIIIL-STD-202, Method 208
- ✧ Polarity: See diagram
- ✧ Marking: Marking Code (see table on Page 2)
- ✧ Mounting position: Any
- ✧ Weight: 0.008 grams (approx.)



### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

### Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation (Note 1)	$P_d$	300	mW
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{\theta JA}$	420	K/W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to + 150	°C

Notes: 1. Device on Fiberglass Substrate.

2. Tested with IZT Current pulses. Pulse width = 5ms.

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

Device (Note 1)	Device Marking Code	Zener Voltage Range @ I <sub>ZT</sub> = 5.0mA V <sub>Z</sub> (Volts) (Notes 2)	Maximum Zener Impedance		Typical Temperature Coefficient	Min Reverse Voltage @ I <sub>R</sub> = 0.1uA V <sub>R</sub> (Volts)
			Z <sub>ZT</sub> @ I <sub>ZT</sub> = 5.0mA	Z <sub>ZK</sub> @ I <sub>ZK</sub> = 1.0mA		
			Ohms	Ohms	T <sub>c</sub> (%/°C)	
DZ23C2V7	V1	2.5-2.9	83	500	-0.065	-
DZ23C3V0	V2	2.8-3.2	95	500	-0.060	-
DZ23C3V3	V3	3.1-3.5	95	500	-0.055	-
DZ23C3V6	V4	3.4-3.8	95	500	-0.055	-
DZ23C3V9	V5	3.7-4.1	95	500	-0.050	-
DZ23C4V3	V6	4.0-4.6	95	500	-0.035	-
DZ23C4V7	V7	4.4-5.0	78	500	-0.015	-
DZ23C5V1	V8	4.8-5.4	60	480	+0.005	0.8
DZ23C5V6	V9	5.2-6.0	40	400	+0.020	1.0
DZ23C6V2	V10	5.8-6.6	10	200	+0.030	2.0
DZ23C6V8	V11	6.4-7.2	8.0	150	+0.045	3.0
DZ23C7V5	V12	7.0-7.9	7.0	50	+0.050	5.0
DZ23C8V2	V13	7.7-8.7	7.0	50	+0.055	6.0
DZ23C9V1	V14	8.5-9.6	10	50	+0.065	7.0
DZ23C10	V15	9.4-10.6	15	70	+0.065	7.5
DZ23C11	V16	10.4-11.6	20	70	+0.070	8.5
DZ23C12	V17	11.4-12.7	20	90	+0.075	9.0
DZ23C13	V18	12.4-14.1	25	110	+0.080	10.0
DZ23C15	V19	13.8-15.6	30	110	+0.080	11.0
DZ23C16	V20	15.30-17.1	40	170	+0.090	12.0
DZ23C18	V21	16.8-19.1	50	170	+0.090	14.0
DZ23C20	V22	18.8-21.2	50	220	+0.090	15.0
DZ23C22	V23	20.8-23.3	55	220	+0.090	17.0
DZ23C24	V24	22.8-25.6	80	220	+0.090	18.0
DZ23C27	V25	25.1-28.9	80	250	+0.090	20.0
DZ23C30	V26	28-32	80	250	+0.090	22.5
DZ23C33	V27	31-35	80	250	+0.090	25.0
DZ23C36	V28	34-39	90	250	+0.090	27.0
DZ23C39	V29	37-41	90	300	+0.110	29.0
DZ23C43	V30	40-46	100	700	+0.110	32.0
DZ23C47	V31	44-50	100	750	+0.110	35.0
DZ23C51	V32	48-54	100	750	+0.110	38.0

Notes: 1. Device on fiberglass substrate.

2. Tested with I<sub>ZT</sub> current pulses. Pulse width = 5.0ms.



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