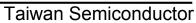


ELECTRICAL SPECIFICATIONS (T <sub>A</sub> = 25°C unless otherwise noted)										
		ZENER VOLTAGE R							LEAKAGE CURRENT	
PART	MARKING	V <sub>Z</sub> @ I <sub>ZT</sub>		I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub> @	V <sub>R</sub>	
NUMBER	CODE		V		mA	Ω	Ω	mA	μA	V
		Min	Nom	Max		Max	Max		Max	
AZ23C2V7	KD1	2.5	2.7	2.9	5	83	500	1	0.1	-
AZ23C3V0	KD2	2.8	3.0	3.2	5	95	500	1	0.1	-
AZ23C3V3	KD3	3.1	3.3	3.5	5	95	500	1	0.1	-
AZ23C3V6	KD4	3.4	3.6	3.8	5	95	500	1	0.1	-
AZ23C3V9	KD5	3.7	3.9	4.1	5	95	500	1	0.1	-
AZ23C4V3	KD6	4.0	4.3	4.6	5	95	500	1	0.1	-
AZ23C4V7	KD7	4.4	4.7	5.0	5	78	500	1	0.1	-
AZ23C5V1	KD8	4.8	5.1	5.4	5	60	480	1	0.1	0.8
AZ23C5V6	KD9	5.2	5.6	6.0	5	40	400	1	0.1	1.0
AZ23C6V2	KDA	5.8	6.2	6.6	5	10	200	1	0.1	2.0
AZ23C6V8	KDB	6.4	6.8	7.2	5	8	150	1	0.1	3.0
AZ23C7V5	KDC	7.0	7.5	7.9	5	7	50	1	0.1	5.0
AZ23C8V2	KDD	7.7	8.2	8.7	5	7	50	1	0.1	6.0
AZ23C9V1	KDE	8.5	9.1	9.6	5	10	50	1	0.1	7.0
AZ23C10	KDF	9.4	10	10.6	5	15	70	1	0.1	7.5
AZ23C11	KDG	10.4	11	11.6	5	20	70	1	0.1	8.5
AZ23C12	KDH	11.4	12	12.7	5	20	90	1	0.1	9.0
AZ23C13	KDI	12.4	13	14.1	5	25	110	1	0.1	10.0
AZ23C15	KDJ	13.8	15	15.6	5	30	110	1	0.1	11.0
AZ23C16	KDK	15.3	16	17.1	5	40	170	1	0.1	12.0
AZ23C18	KDL	16.8	18	19.1	5	50	170	1	0.1	14.0
AZ23C20	KDM	18.8	20	21.2	5	50	220	1	0.1	15.0
AZ23C22	KDN	20.8	22	23.3	5	55	220	1	0.1	17.0
AZ23C24	KDO	22.8	24	25.6	5	80	220	1	0.1	18.0
AZ23C27	KDP	25.1	27	28.9	5	80	250	1	0.1	20.0
AZ23C30	KDQ	28	30	32	5	80	250	1	0.1	22.5
AZ23C33	KDR	31	33	35	5	80	250	1	0.1	25.0
AZ23C36	KDS	34	36	38	5	90	250	1	0.1	27.0
AZ23C39	KDT	37	39	41	5	90	300	1	0.1	29.0
AZ23C43	KDU	40	43	46	5	100	700	1	0.1	32.0
AZ23C47	KDV	44	47	50	5	100	750	1	0.1	35.0
AZ23C51	KDW	48	51	54	5	100	750	1	0.1	38.0

#### Notes:

- 1. The zener Voltage (VZ) is tested under pulse condition of 5ms.
- 2. The device numbers listed have a standard tolerance on the nomial zener voltage of  $\leq \pm 5\%$ .
- 3. For detailed information on price, availability and delivery of nomial zener voltages between the voltages shownand tighter voltage tolerances, contact your nearest Taiwan Semiconductor representative.





ORDERING INFORMATION					
ORDERING CODE (Note 1, 2)	PACKAGE	PACKING			
AZ23Cxxx RF	SOT-23	3K / 7" Reel			
AZ23Cxxx RFG	SOT-23	3K / 7" Reel			
AZ23Cxxx-D0 RF	SOT-23	3K / 7" Reel			
AZ23Cxxx-D0 RFG	SOT-23	3K / 7" Reel			

Note 1:

Note 2:

<sup>&</sup>quot;xxx" defines voltage from 2.7V (AZ23C2V7) to 51V (AZ23C51)

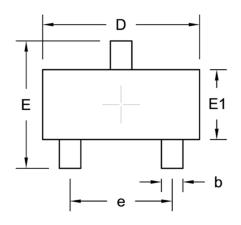
<sup>&</sup>quot;G" means green compound (halogen free)

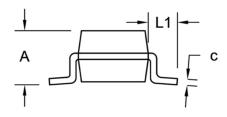
Taiwan Semiconductor



## **PACKAGE OUTLINE DIMENSION**

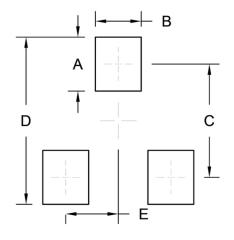
**SOT-23** 





DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min.	Max.	Min.	Max.	
Α	0.89	1.12	0.035	0.044	
b	0.30	0.50	0.012	0.020	
С	0.08	0.20	0.003	0.008	
D	2.80	3.04	0.110	0.120	
E	2.10	2.64	0.083	0.104	
E1	1.20	1.40	0.047	0.055	
е	1.90	BSC	0.075 BSC		
L1	0.54	REF.	0.021 REF.		

# **SUGGESTED PAD LAYOUT**



Symbol	Unit (mm)	Unit (inch)
Α	1.00	0.039
В	0.85	0.033
С	2.10	0.083
D	3.10	0.122
E	0.98	0.039



Taiwan Semiconductor

### **Notice**

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Purchasers are solely responsible for the choice, selection, and use of TSC products and TSC assumes no liability for application assistance or the design of Purchasers' products.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

#### Taiwan Semiconductor:

AZ23C10 AZ23C11 AZ23C12 AZ23C13 AZ23C15 AZ23C16 AZ23C18 AZ23C20 AZ23C22 AZ23C24

AZ23C2V7 AZ23C30 AZ23C33 AZ23C36 AZ23C39 AZ23C3V0 AZ23C3V3 AZ23C3V6 AZ23C3V9 AZ23C43

AZ23C47 AZ23C4V3 AZ23C4V7 AZ23C51 AZ23C5V1 AZ23C5V6 AZ23C6V2 AZ23C6V8 AZ23C7V5 AZ23C8V2

AZ23C9V1 AZ23C30 RF AZ23C16 RF AZ23C47 RFG AZ23C11 RFG AZ23C36 RFG AZ23C9V1 RFG

AZ23C3V6 RFG AZ23C24 RFG AZ23C20 RFG AZ23C10 RFG AZ23C27 RFG AZ23C6V2 RFG AZ23C5V6 RFG

AZ23C51 RFG AZ23C7V5 RFG AZ23C33 RFG AZ23C30 RFG AZ23C13 RFG AZ23C18 RF AZ23C24 RF

AZ23C22 RFG AZ23C2V7 RFG AZ23C15 RF AZ23C10 RF AZ23C12 RFG AZ23C3V3 RF AZ23C6V2 RF

AZ23C3V9 RFG AZ23C8V2 RFG AZ23C5V1 RFG AZ23C18 RFG AZ23C4V3 RFG AZ23C6V8 RFG AZ23C3V3

RFG AZ23C3V0 RFG AZ23C4V7 RFG AZ23C15 RFG AZ23C16 RFG AZ23C4V3 RFG AZ23C3V9 RFG AZ23C5V6

RF AZ23C5V1 RF