

## Features

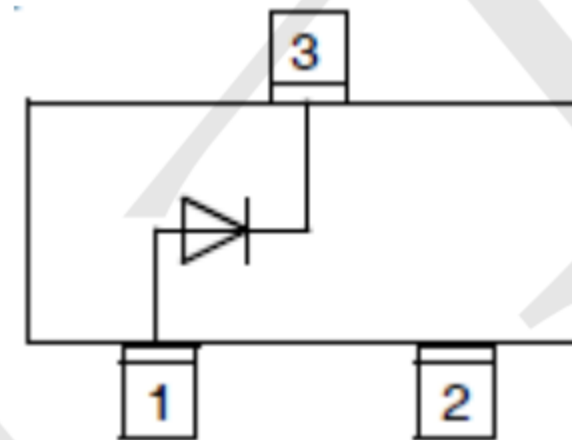
- Low Zener Impedance
- Power Dissipation of 350mW
- High Stability and High Reliability
- Halogen free and RoHS compliant
- Tight voltage tolerance:  $\pm 5\%$  for C-series

## Applications

- General voltage regulation
- Mobile & handheld systems

## Ordering Information

- Package: SOT23
- Shipping Qty: 3000/7inch Tape & Reel



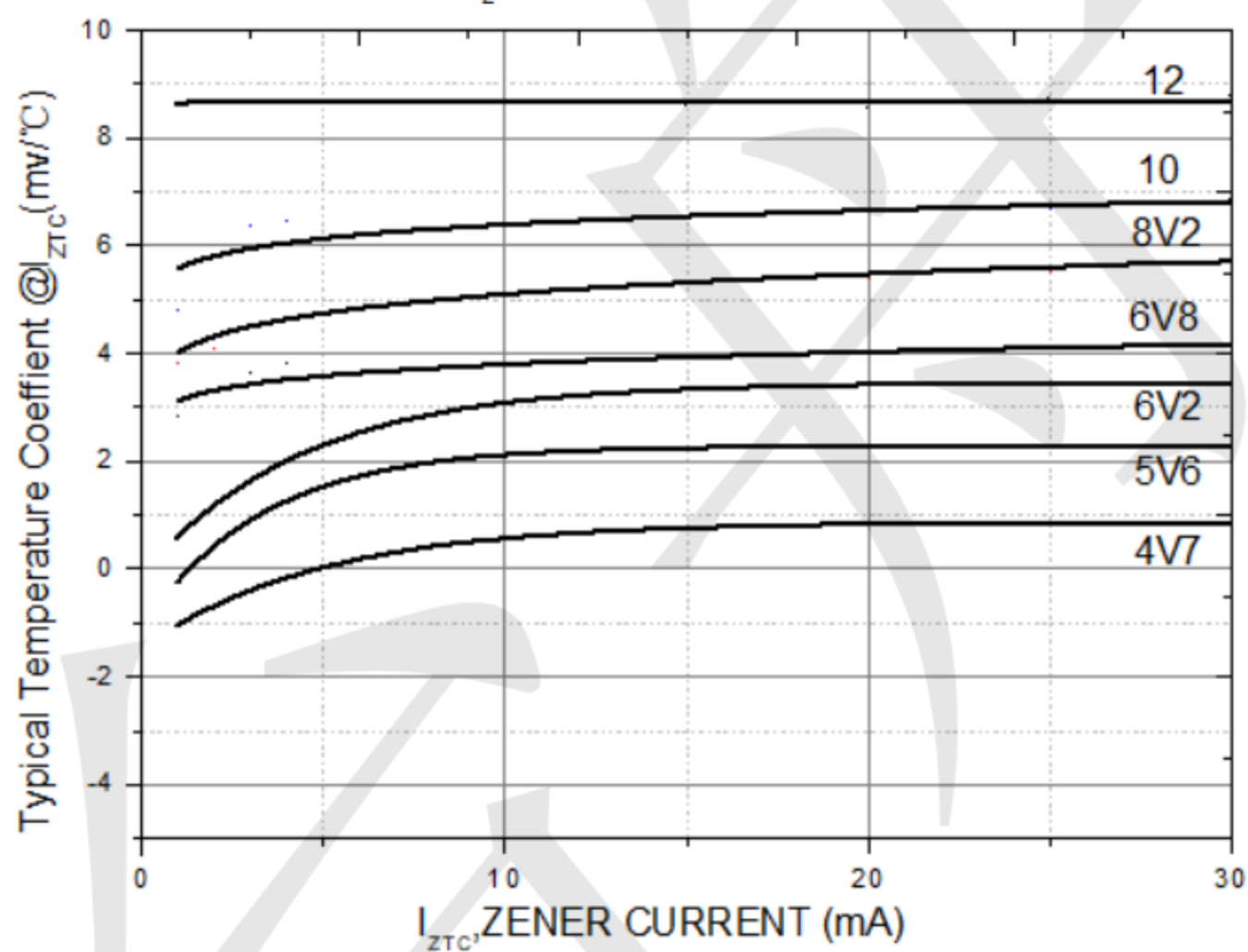
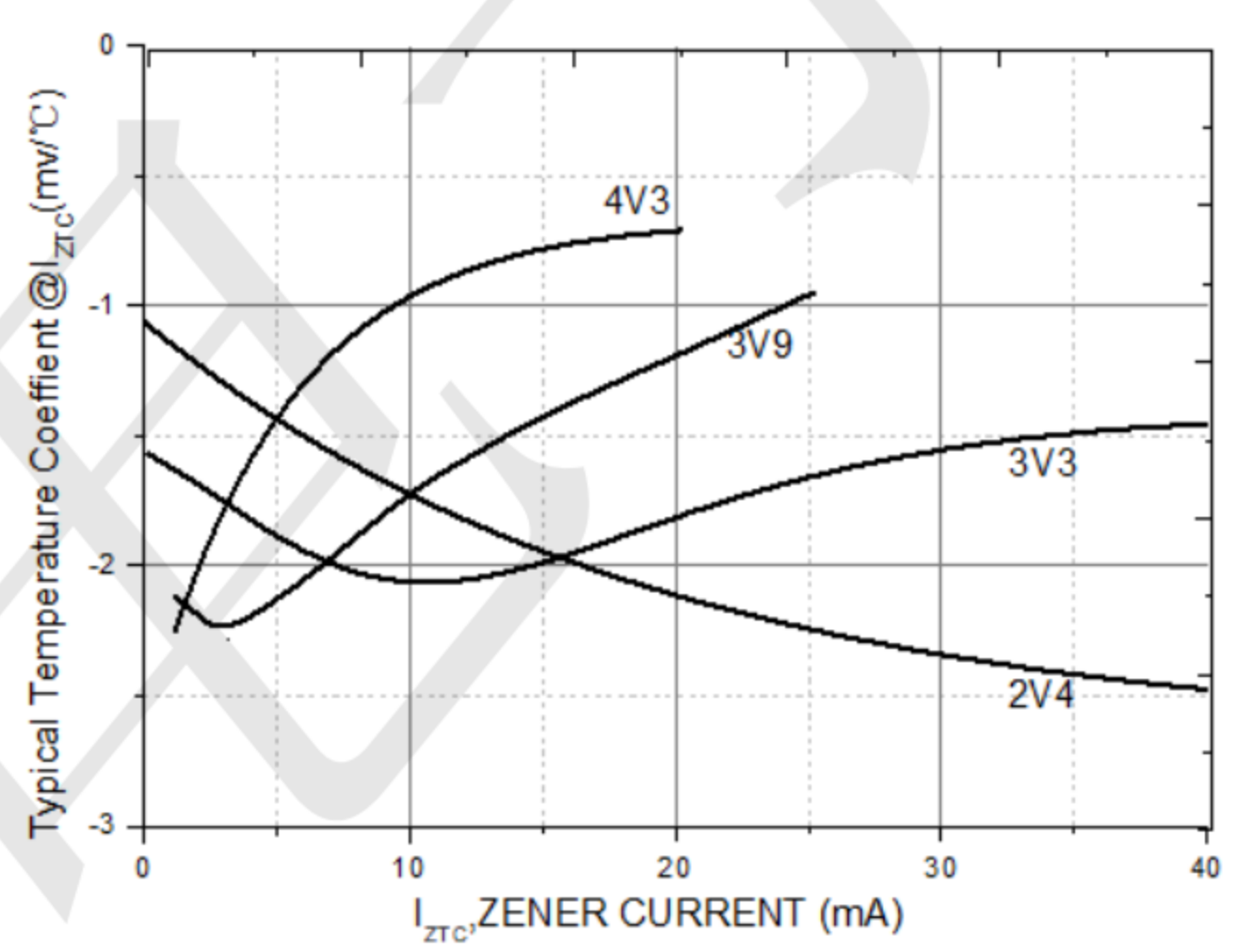
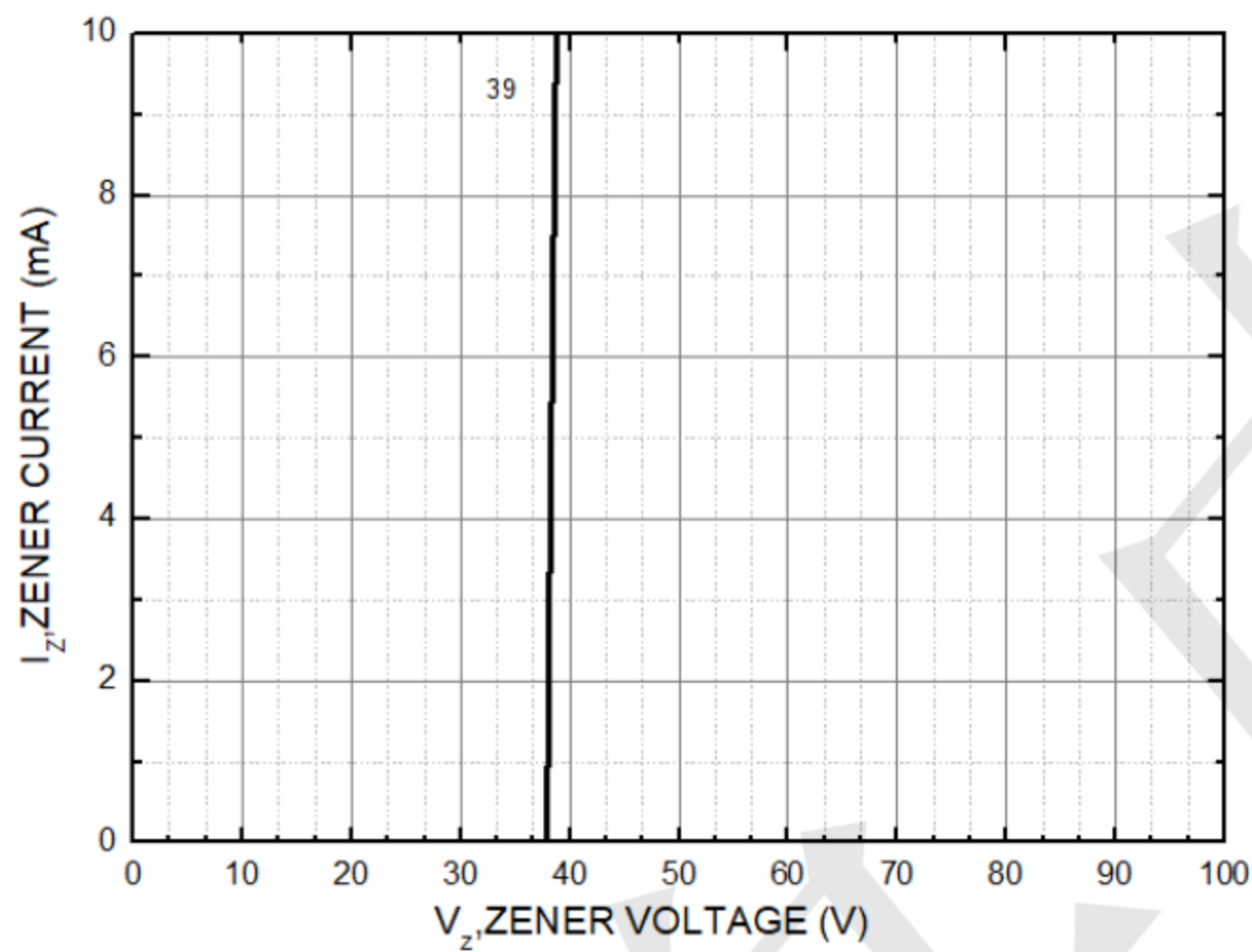
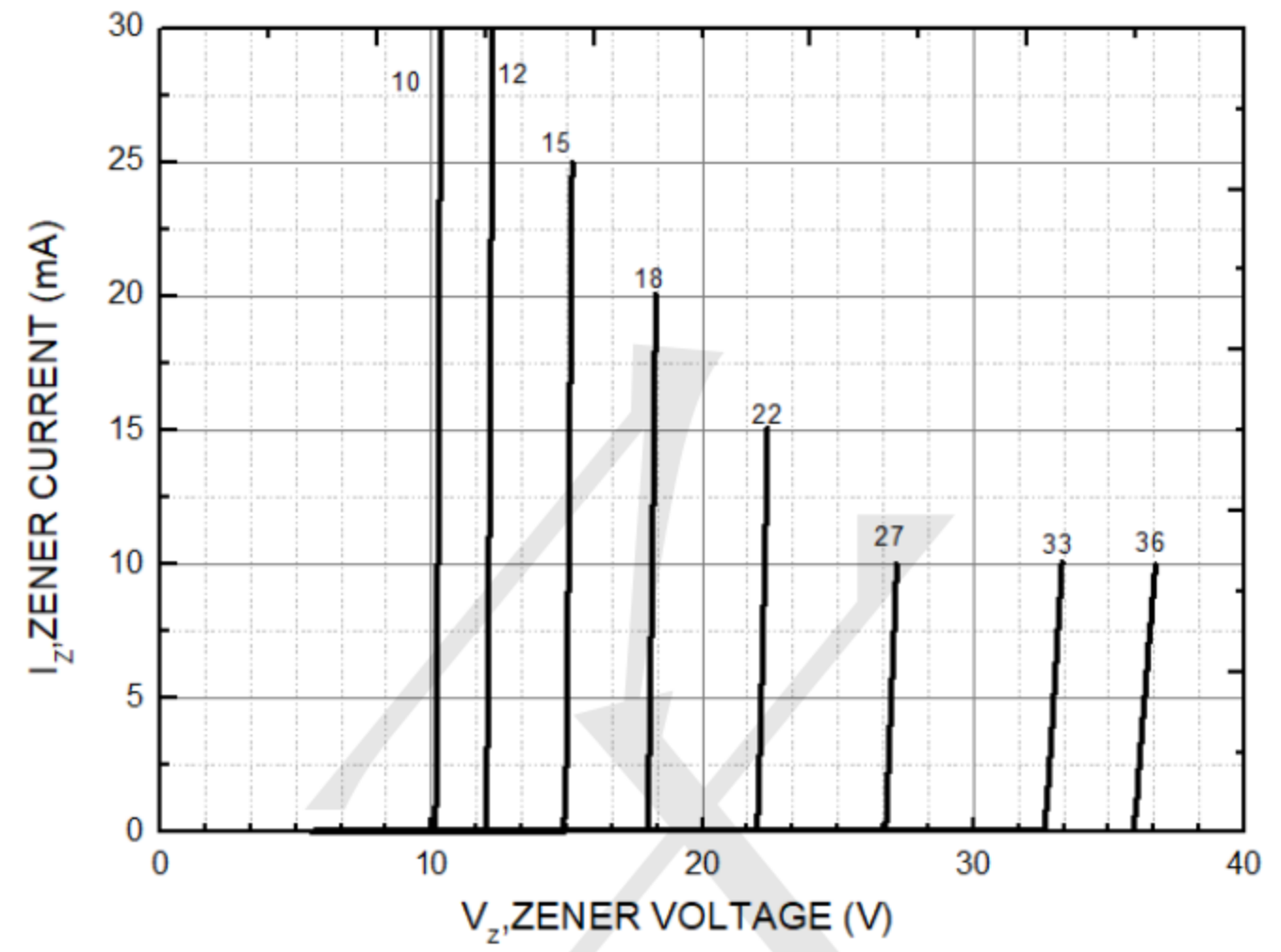
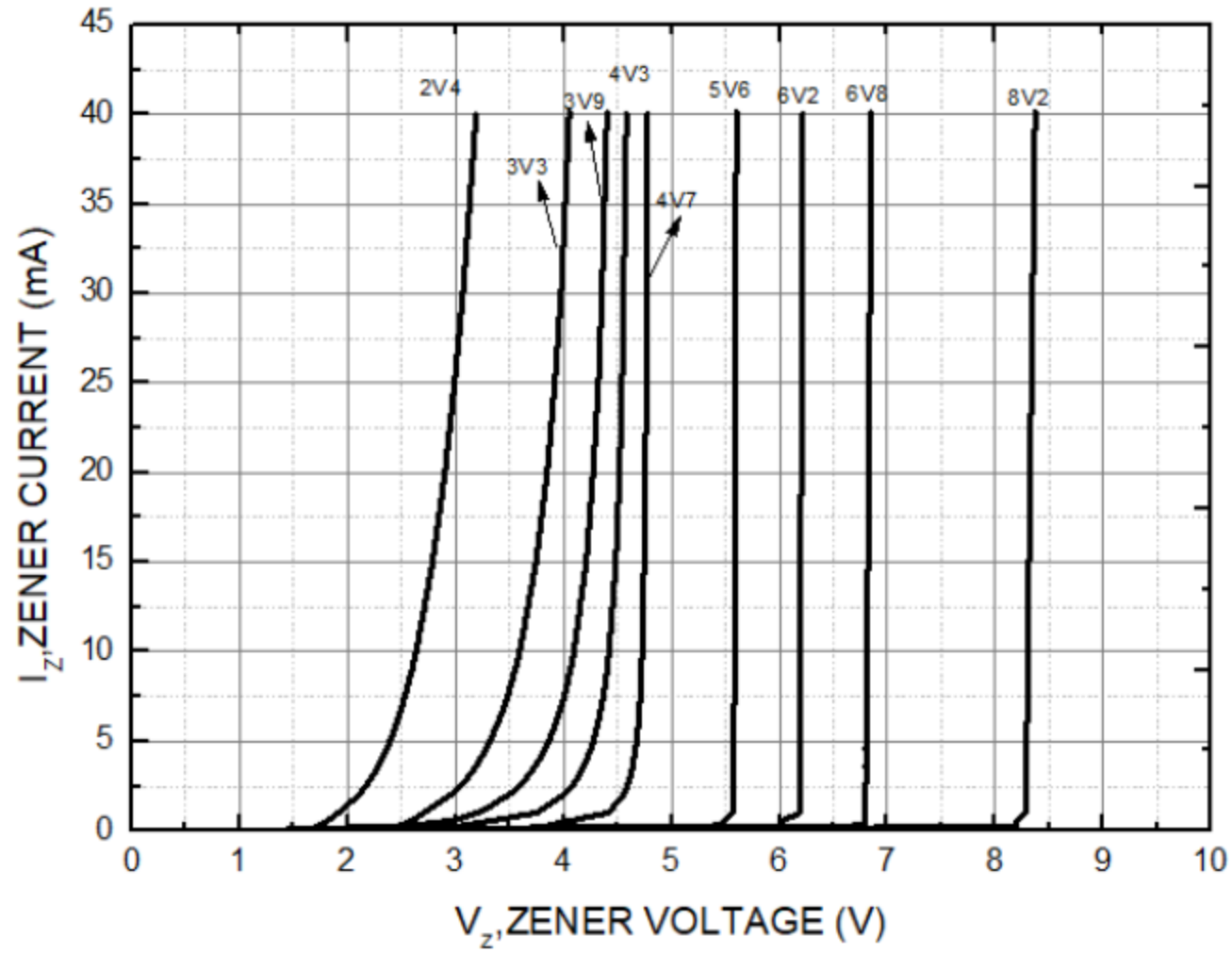
## Absolute Maximum Ratings ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Forward Voltage @ $I_F = 10\text{mA}$	$V_F$	0.9	V
Power Dissipation	$P_D$	350	mW
Thermal Resistance (Junction-to-Ambient)	$R_{\theta JA}$	357	$^\circ\text{C/W}$
Junction Temperature Range	$T_J$	-55 ~ +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 ~ +150	$^\circ\text{C}$

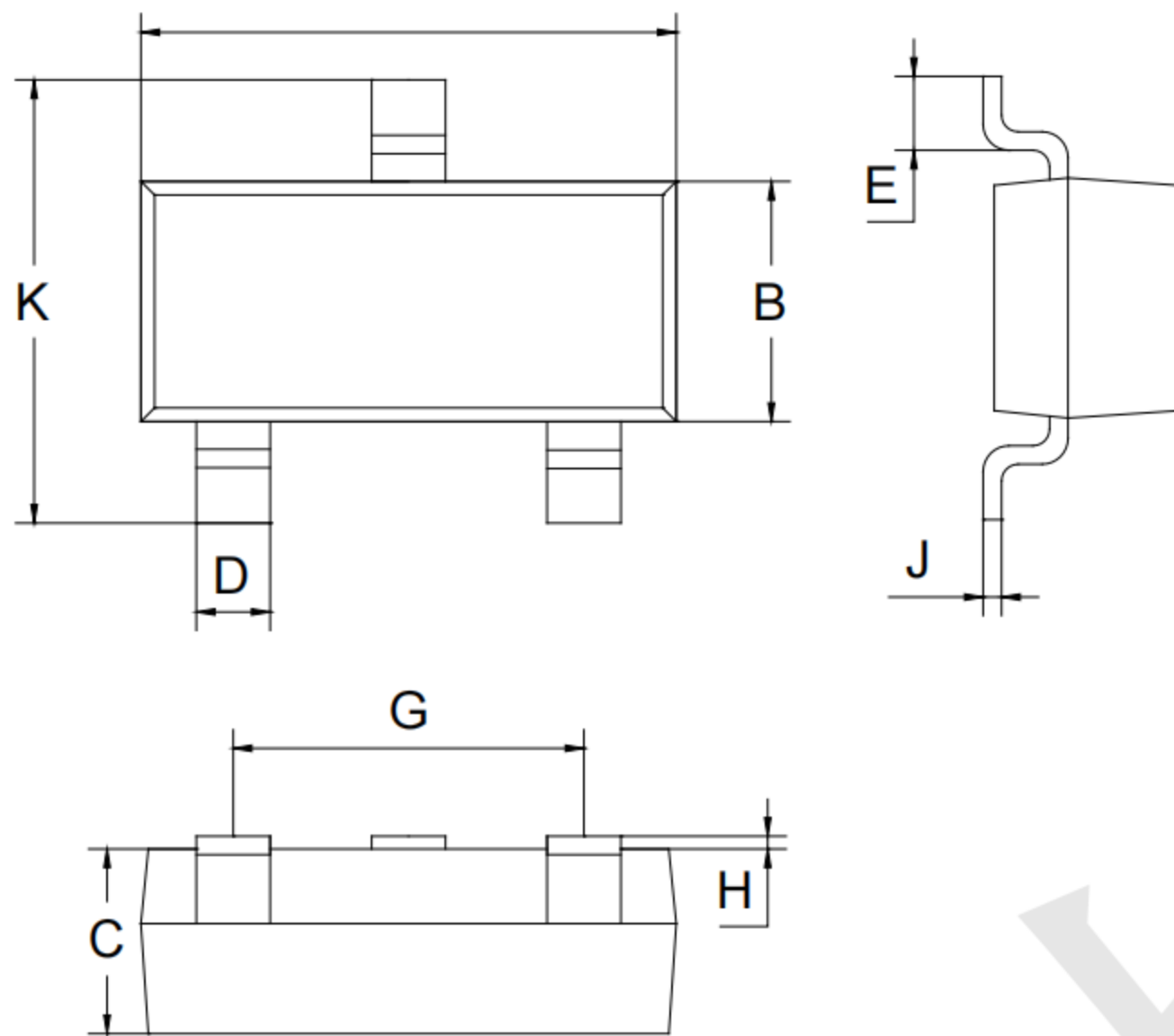
**Electrical Characteristics** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

Type Number	Nominal Zener Voltage			Maximum Zener Impedance				Max Reverse Leakage Current	
	V <sub>Z</sub> at I <sub>ZT</sub> (V)			Z <sub>ZT</sub> @I <sub>ZT</sub>		Z <sub>Zk</sub> @I <sub>Zk</sub>		I <sub>R</sub> (μA)@ V <sub>R</sub>	
	Min.	Typ.	Max.	Z <sub>ZT</sub> (Ω)	I <sub>ZT</sub> (mA)	Z <sub>Zk</sub> (Ω)	I <sub>Zk</sub> (mA)	Max	V <sub>R</sub> (V)
TPZ2V4CS3	2.28	2.4	2.52	100	5	600	1	50	1
TPZ2V7CS3	2.5	2.7	2.9	100	5	600	1	20	1
TPZ3V0CS3	2.8	3.0	3.2	95	5	600	1	10	1
TPZ3V3CS3	3.1	3.3	3.5	95	5	600	1	5	1
TPZ3V6CS3	3.4	3.6	3.8	90	5	600	1	5	1
TPZ3V9CS3	3.7	3.9	4.1	90	5	600	1	3	1
TPZ4V3CS3	4.0	4.3	4.6	90	5	600	1	3	1
TPZ4V7CS3	4.4	4.7	5.0	80	5	500	1	3	2
TPZ5V1CS3	4.8	5.1	5.4	60	5	480	1	2	2
TPZ5V6CS3	5.2	5.6	6.0	40	5	400	1	1	2
TPZ6V2CS3	5.8	6.2	6.6	10	5	150	1	3	4
TPZ6V8CS3	6.4	6.8	7.2	15	5	80	1	2	4
TPZ7V5CS3	7.0	7.5	7.9	15	5	80	1	1	5
TPZ8V2CS3	7.7	8.2	8.7	15	5	80	1	0.7	5
TPZ9V1CS3	8.5	9.1	9.6	15	5	100	1	0.5	6
TPZ10VCS3	9.4	10	10.6	20	5	150	1	0.2	7
TPZ11VCS3	10.4	11	11.6	20	5	150	1	0.1	8
TPZ12VCS3	11.4	12	12.7	25	5	150	1	0.1	8
TPZ13VCS3	12.4	13	14.1	30	5	170	1	0.1	8
TPZ15VCS3	14.25	15	15.75	30	5	200	1	0.1	10.5
TPZ16VCS3	15.3	16	17.1	40	5	200	1	0.1	11.2
TPZ18VCS3	16.8	18	19.1	45	5	225	1	0.1	12.6
TPZ20VCS3	18.8	20	21.2	55	5	225	1	0.1	14
TPZ22VCS3	20.8	22	23.3	55	5	250	1	0.1	15.4
TPZ24VCS3	22.8	24	25.6	70	5	250	1	0.1	16.8
TPZ27VCS3	25.1	27	28.9	80	2	300	1	0.1	18.9
TPZ30VCS3	28	30	32	80	2	300	1	0.1	21.0
TPZ33VCS3	31	33	35	80	2	325	1	0.1	23.1
TPZ36VCS3	34	36	38	90	2	350	1	0.1	25.2
TPZ39VCS3	37	39	41	130	2	350	1	0.1	27.3
TPZ43VCS3	40.85	43	45.15	150	5	375	1	0.1	30.1
TPZ47VCS3	44.65	47	49.35	150	5	375	1	0.1	32.9

**Typical Electrical Characteristic Curves**

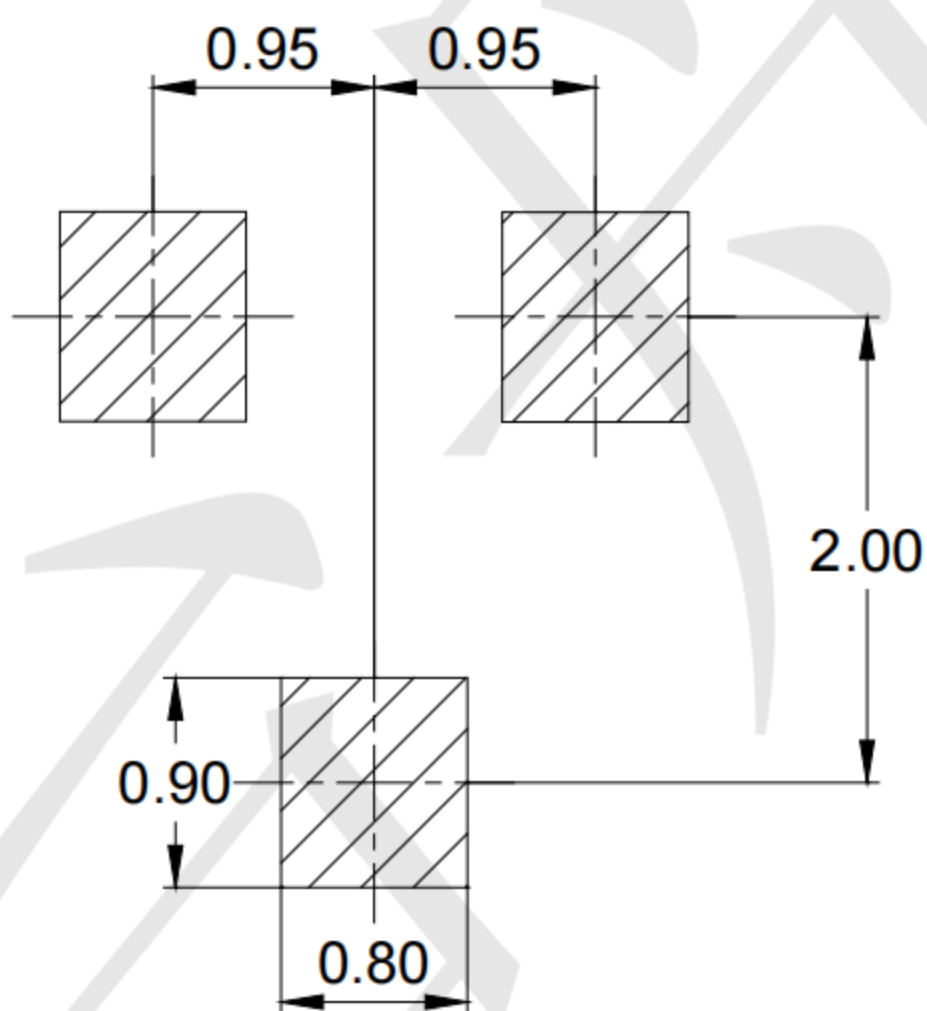


**Outline Drawing - SOT23 (unit:mm)**



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60

**Mounting Pad Layout-SOT23 (unit:mm)**



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