

Features

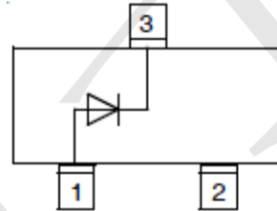
- Low Zener Impedance
- Power Dissipation of 350mW
- High Stability and High Reliability
- Halogen free and RoHS compliant
- Tight voltage tolerance: $\pm 5\%$ for C-series

Applications

- General voltage regulation
- Mobile & handheld systems

Ordering Information

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



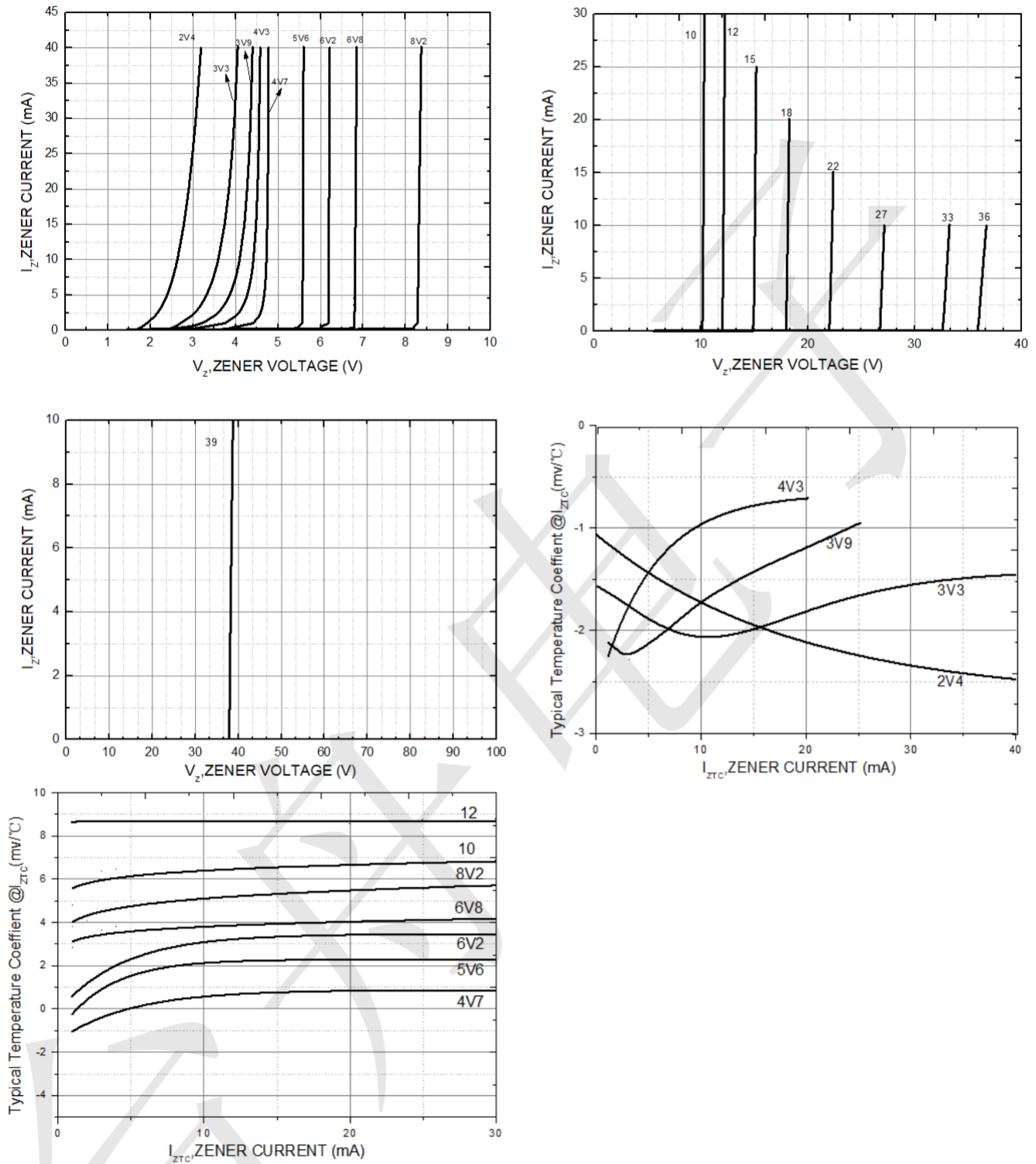
Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

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	$^\circ\text{C}$

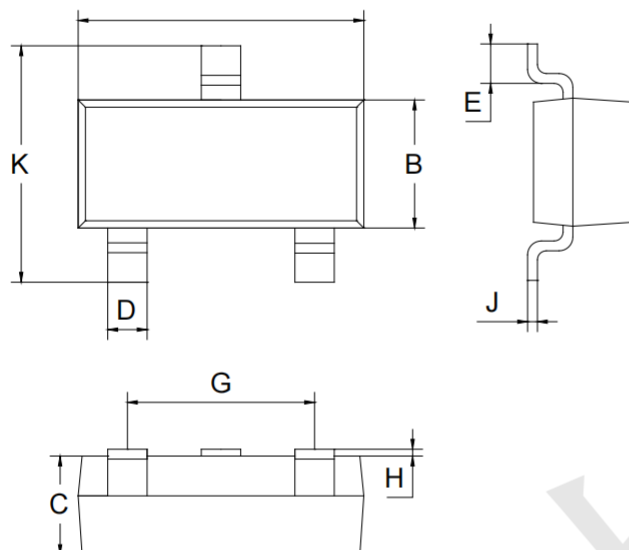
Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Type Number	Nominal Zener Voltage			Maximum Zener Impedance				Max Reverse Leakage Current	
	V _Z at I _{ZT} (V)			Z _{ZT} @I _{ZT}		Z _{Zk} @I _{Zk}		I _R (μA)@ V _R	
	Min.	Typ.	Max.	Z _{ZT} (Ω)	I _{ZT} (mA)	Z _{Zk} (Ω)	I _{Zk} (mA)	Max	V _R (V)
TPBZX84C8V2LT1G	7.7	8.2	8.7	15	5	80	1	0.7	5

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)

