Elektronische Bauelemente

AZ23CxxxW Series

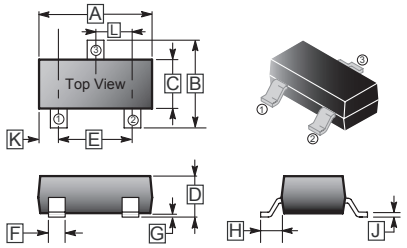
250 mW SOT-323 Series

Surface Mount Plastic-Encapsulated Zener Diodes

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

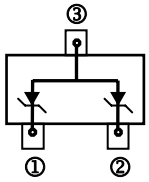
SOT-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.100 REF.	
B	1.80	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.25
D	0.80	1.10	K	-	-
E	1.20	1.40	L	0.650 TYP.	
F	0.20	0.40			

FEATURES

- Dual zeners in common anode configuration.
- Ideally suited for automatic insertion.
- △Vz for both diodes in one case is ≤5%.



PACKAGING INFORMATION

- Weight: 0.0074 grams (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Forward Voltage @I_F=10mA	V_F	0.9	V
Power Dissipation	P_D	250	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	417	℃/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65~150	℃

ELECTRICAL RATINGS (Rating 25°C ambient temperature unless otherwise specified)

TYPE NUMBER	MARKING	Vz @ I_{ZT} (Volts)			Max. Zener Impedance				Max. Reverse Current		Temp. Coefficent Of Zener voltage @ I_{ZT}=5mA (mV/℃)	
					I_{ZT}	Z_{ZT} @ I_{ZT}	I_{ZK}	Z_{ZK} @ I_{ZK}	V_R	$I_{R(max)}$ @ V_R		
		Min	Nom	Max	mA	Ω	mA	Ω	V	μA	Min	Max
AZ23C5V6W	**KD9**	5.32	5.6	5.88	5	40	1	400	2.0	1	-2.0	2.5
AZ23C6V8W	**KDB**	6.47	6.8	7.14	5	15	1	80	4.0	2	1.2	4.5
AZ23C10W	**KDF**	9.4	10	10.6	5	15	1	70	7.0	0.2	4.5	8.0
AZ23C18W	**KDL**	16.8	18	19.1	5	50	1	170	12.6	0.1	12.4	16.0

CHARACTERISTIC CURVES

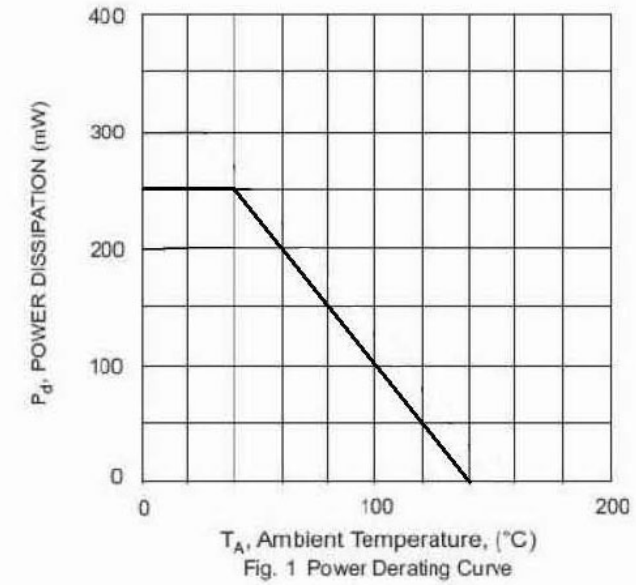


Fig. 1 Power Derating Curve

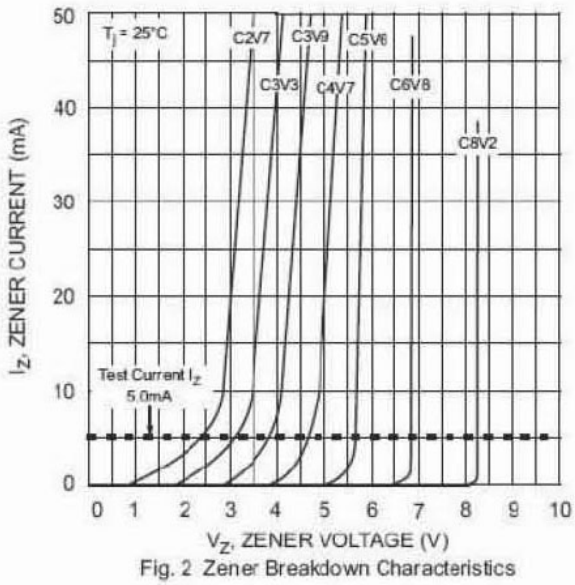


Fig. 2 Zener Breakdown Characteristics

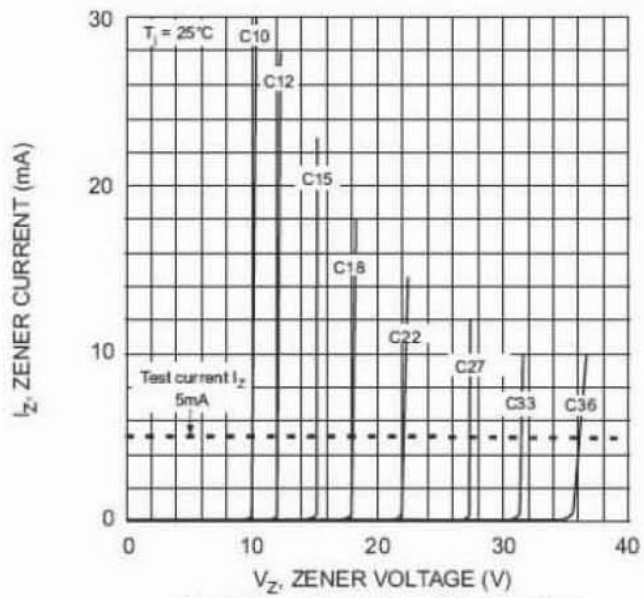


Fig. 3 Zener Breakdown Characteristics

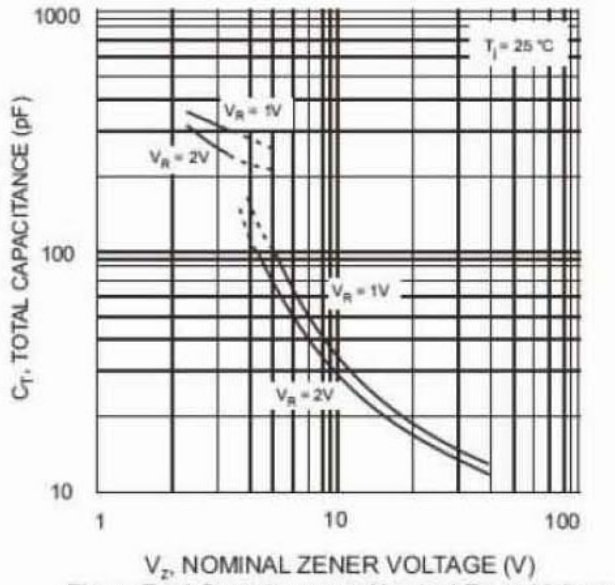


Fig. 4 Total Capacitance vs Nominal Zener Voltage