

Features

- Dual Zeners in Common Anode Configuration
- ΔV_z for Both Diodes in One Case is $\leq 5\%$.
- Ideally Suited for Automated Assembly Processes
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Exceed ESD standard based on IEC-61000-4-4 Contact: $\pm 8KV$
Air: $\pm 15V$

Maximum Ratings

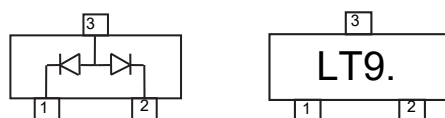
- Operating Junction Temperature Range: $-55^{\circ}C$ to $+150^{\circ}C$
- Storage Temperature Range: $-55^{\circ}C$ to $+150^{\circ}C$
- Thermal Resistance : $625^{\circ}C/W$ Junction to Ambient(Note2)

Parameter	Symbol	Rating	Conditions
Power Dissipation	P_D	200mW	
Maximum Forward Voltage	V_F	0.9V	$I_F = 10mA$
Junction Capacitance	C_J	15pF	$V_R = 5V, f = 1MHz$

Note:1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

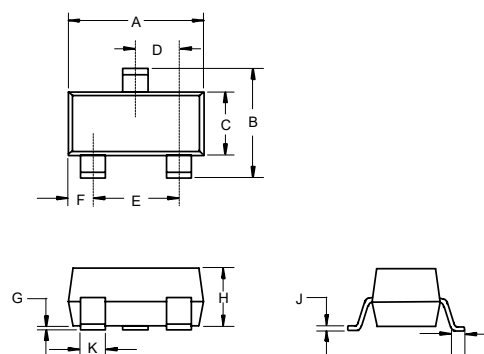
2. Part mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code



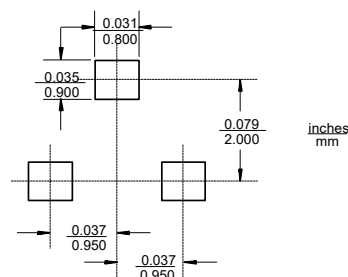
**200 mW
Zener Diode
5.6 Volts**

SOT-23



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.10	
H	0.035	0.043	0.90	1.05	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Zener Voltage ⁽²⁾	Maximum Zener Impedance ⁽³⁾		Maximum Zener Impedance ⁽³⁾		Min reverse Voltage ⁽²⁾		Maximum Junction Capacitance	Marking Code
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	I_R	V_R	C_J	
	V	mA	Ω	Ω	mA	μA	V	pF	
AZ23C5V6L	5.32-5.88	5	30	400	1	0.1	1.0	25	LT9

Note :

2. Short duration test pulse used to minimize self-heating effect.
3. $f=1\text{KHz}$.

Curve Characteristics

Fig. 1 - Typical Zener Breakdown Characteristics

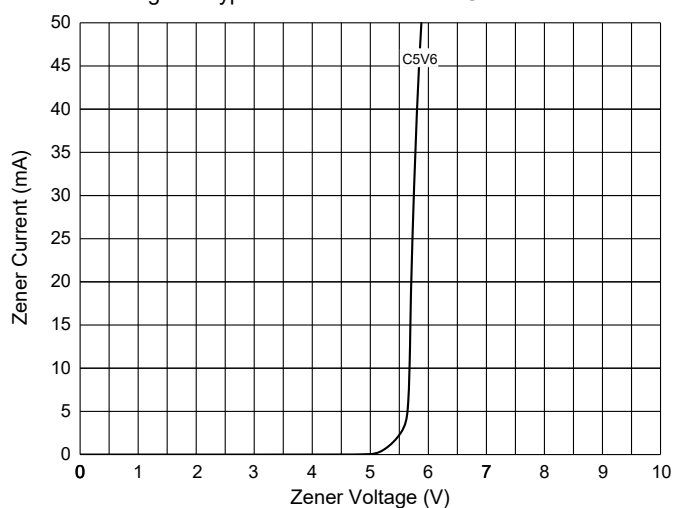


Fig. 2 - Typical Forward Characteristics

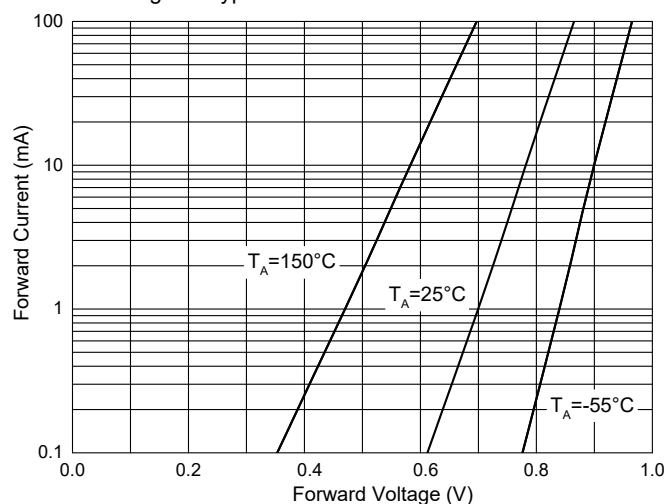


Fig. 3 - Power Derating Curve

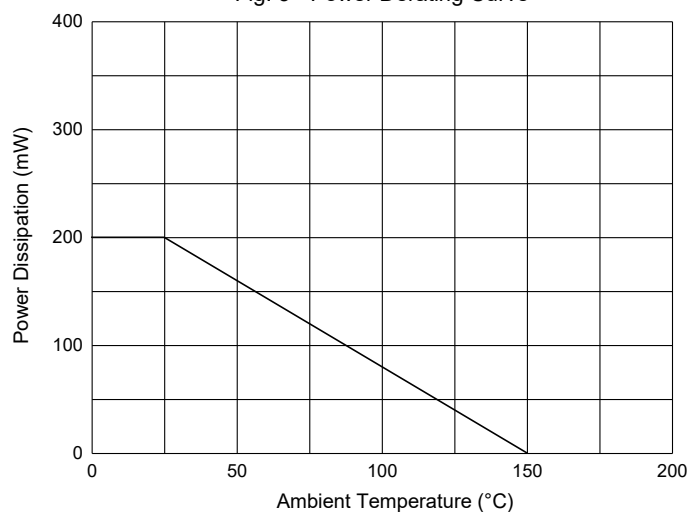
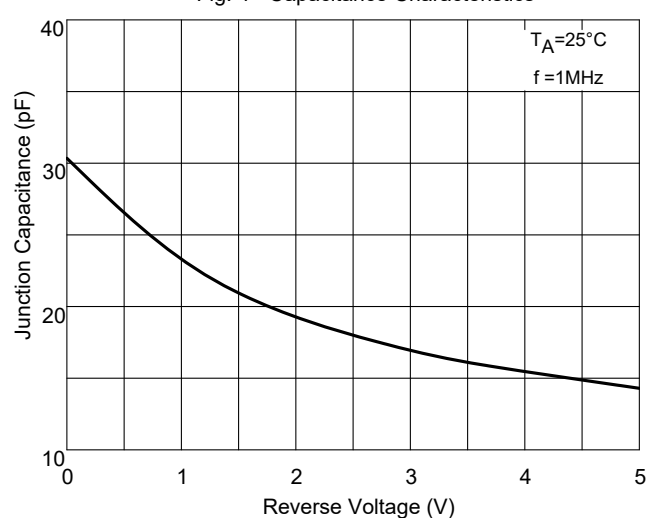


Fig. 4 - Capacitance Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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