

Features

- Planar Die Construction
- Zener Voltages from 2.4V - 39V
- Ideally Suited for Automated Assembly Processes
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance : 625°C/W Junction to Ambient

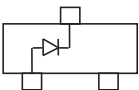
Parameter	Symbol	Rating	Conditions
Power Dissipation	P_D	200mW	Note 2
Peak Forward Surge Current	I_{FSM}	2.0A	Note 3
Maximum Forward Voltage	V_F	1.2V	$I_F=100mA$

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. Mounted on 5.0mm² (0.013mm thick) Land Areas.

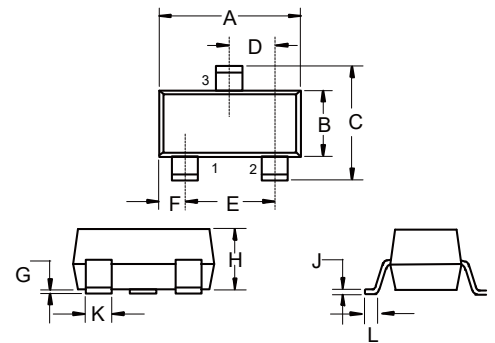
3. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

Internal Structure



200 mWatt Zener Diodes 2.4V to 39 Volts

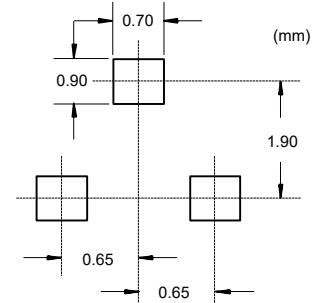
SOT-323



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.071	0.087	1.80	2.20	
B	0.045	0.053	1.15	1.35	
C	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
H	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

QseecqrcbAQmjbcpAN_bAJ_wmsr



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Zener Voltage ^(4,5)			Maximum Zener Impedance ⁽⁶⁾				Maximum Reverse Current $I_R @ V_R$		Marking Code
	$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	I_{ZK}	$Z_{ZK} @ I_{ZK}$	I_R	V_R	
	Min.(V)	Nom(V)	Max.(V)	mA	Ω	mA	Ω	μA	V	
BZX84C2V4W	2.28	2.4	2.52	5	100	1	600	50	1	KRB
BZX84C2V7W	2.5	2.7	2.9	5	100	1	600	20	1	KRC
BZX84C3V0W	2.8	3	3.2	5	95	1	600	10	1	KRD
BZX84C3V3W	3.1	3.3	3.5	5	95	1	600	5.0	1	KRE
BZX84C3V6W	3.4	3.6	3.8	5	90	1	600	5.0	1	KRF
BZX84C3V9W	3.7	3.9	4.1	5	90	1	600	3.0	1	KRG
BZX84C4V3W	4	4.3	4.6	5	90	1	600	3.0	1	KRH
BZX84C4V7W	4.4	4.7	5	5	80	1	500	3.0	2	KR1
BZX84C5V1W	4.8	5.1	5.4	5	60	1	480	2.0	2.0	KR2
BZX84C5V6W	5.2	5.6	6	5	40	1	400	1.0	2.0	KR3
BZX84C6V2W	5.8	6.2	6.6	5	10	1	150	3.0	4.0	KR4
BZX84C6V8W	6.4	6.8	7.2	5	15	1	80	2.0	4.0	KR5
BZX84C7V5W	7	7.5	7.9	5	15	1	80	1.0	5	KR6
BZX84C8V2W	7.7	8.2	8.7	5	15	1	80	0.7	5	KR7
BZX84C9V1W	8.5	9.1	9.6	5	15	1	100	0.5	6	KR8
BZX84C10W	9.4	10	10.6	5	20	1	150	0.2	7.0	KR9
BZX84C11W	10.4	11	11.6	5	20	1	150	0.1	8.0	KP1
BZX84C12W	11.4	12	12.7	5	25	1	150	0.1	8.0	KP2
BZX84C13W	12.4	13	14.1	5	30	1	170	0.1	8.0	KP3
BZX84C15W	13.8	15	15.6	5	30	1	200	0.1	10.5	KP4
BZX84C16W	15.3	16	17.1	5	40	1	200	0.1	11.2	KP5
BZX84C18W	16.8	18	19.1	5	45	1	225	0.1	12.6	KP6
BZX84C20W	18.8	20	21.2	5	55	1	225	0.1	14.0	KP7
BZX84C22W	20.8	22	23.3	5	55	1	250	0.1	15.4	KP8
BZX84C24W	22.8	24	25.6	5	70	1	250	0.1	16.8	KP9
BZX84C27W	25.1	27	28.9	5	80	1	300	0.1	18.9	KPA
BZX84C30W	28	30	32	5	80	1	300	0.1	21.0	KPB
BZX84C33W	31	33	35	5	80	1	325	0.1	23.1	KPC
BZX84C36W	34	36	38	5	90	1	350	0.1	25.2	KPD
BZX84C39W	37	39	41	5	130	1	350	0.1	27.3	KPE

Note:

4. Tolerance and Type Number Designation. The type Numbers Listed Have a Standard Tolerance on The Nominal Zener Voltage of $\pm 5\%$.
5. Zener Voltage (V_Z) Measurement. Guarantess the Zener Voltage When Measured at 90 Seconds While Maintaining The Lead Temperature (T_L) at 25°C , from The Diode Body.
6. Zener Impedance (Z_Z) Derivation. The Zener Impedance is Derived from The 60 Cycle AC Voltage, Which Results When an AC Current Having an rms Value Equal to 10% of The DC Zener Current (I_{ZT} or I_{ZK}) is Superimposed on I_{ZT} or I_{ZK} .

Curve Characteristics

Fig. 1 - Power Derating Curve

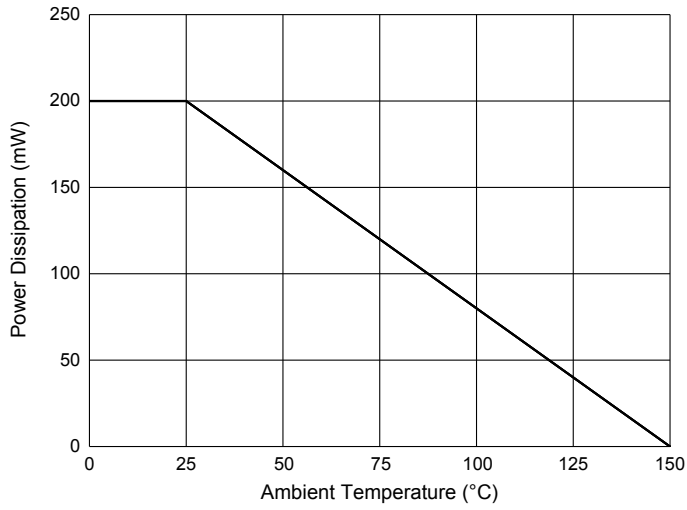
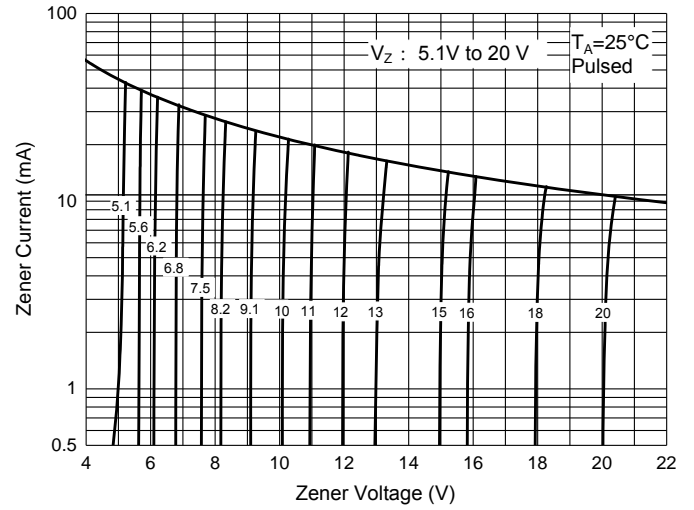


Fig. 2 - Typical Zener Breakdown Characteristics



Ordering Information

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

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