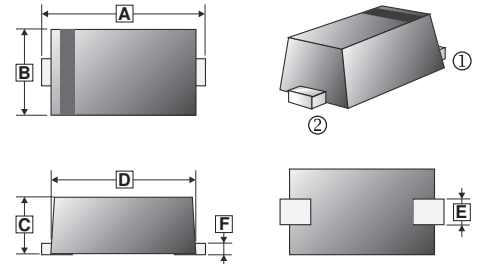


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Wide Zener Voltage Range Selection, 5.1V to 20V
- Flat Lead SOD-723 Small Outline Plastic Package
- Surface Device Type Mounting
- Planar Die Construction

SOD-723



PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-723	8K	7 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.300	1.500	D	0.800	1.100
B	0.550	0.650	E	0.250	0.350
C	0.515	0.650	F	0.080	0.150



ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Forward Voltage @ $I_F=10\text{mA}$	V_F	0.9	V
Power Dissipation ¹	P_D	100	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	1250	$^{\circ}\text{C} / \text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65~150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Type Number	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Leakage Current		Typical Temperature Coefficient	
		$V_Z@I_{ZT}$			I_{ZT}	$Z_{ZT}@I_{ZT}$	$Z_{ZK}@I_{ZK}$	I_{ZK}	$I_R@V_R$		@ $I_{ZT}=5\text{mA}$ $\text{mV}/^\circ\text{C}$	
		Min.(V)	Nom.(V)	Max.(V)	mA	Ω	Ω	mA	μA	V	Min.	Max.
BZX784B5V1	X2	5	5.1	5.2	5	60	480	1	2	2	-2.7	1.2
BZX784B5V6	X3	5.49	5.6	5.71	5	40	400	1	1	2	-2	2.5
BZX784B6V2	X4	6.08	6.2	6.32	5	10	150	1	3	4	0.4	3.7
BZX784B6V8	X5	6.66	6.8	6.94	5	15	80	1	2	4	1.2	4.5
BZX784B7V5	X6	7.35	7.5	7.65	5	15	80	1	1	5	2.5	5.3
BZX784B8V2	X7	8.04	8.2	8.36	5	15	80	1	0.7	5	3.2	6.2
BZX784B9V1	X8	8.92	9.1	9.28	5	15	100	1	0.5	6	3.8	7
BZX784B10	X9	9.8	10	10.2	5	20	150	1	0.2	7	4.5	8
BZX784B11	W1	10.78	11	11.22	5	20	150	1	0.1	8	5.4	9
BZX784B12	W2	11.76	12	12.24	5	25	150	1	0.1	8	6	10
BZX784B13	W3	12.74	13	13.26	5	30	170	1	0.1	8	7	11
BZX784B15	W4	14.7	15	15.3	5	30	200	1	0.1	10.5	9.2	13
BZX784B16	W5	15.68	16	16.32	5	40	200	1	0.1	11.2	10.4	14
BZX784B18	W6	17.64	18	18.36	5	45	225	1	0.1	12.6	12.4	16
BZX784B20	W7	19.6	20	20.4	5	55	225	1	0.1	14	14.4	18

Note:

1. Valid provided that device terminals are kept at ambient temperature.
2. Tested with pulses, period=5ms,pulse width =300 μs .
3. $f = 1\text{KHz}$