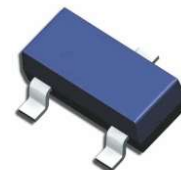
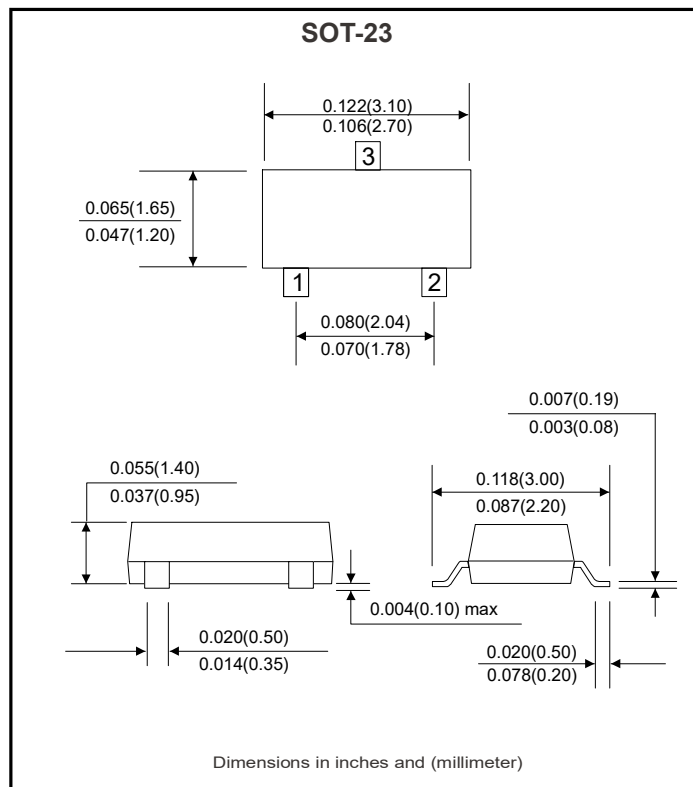
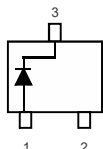


BZX84C2V0-HF Thru. BZX84C75-HF**Voltage: 2.0 to 75 Volts****Power: 300 mWatts****RoHS Device****Halogen Free****Features**

- Zener breakdown voltage range-2.0V to 75V
- Package designed for optimal automated board assembly
- Small package size for high density applications

Circuit diagram**Maximum Rating And Electrical Characteristics**

Parameter	Symbol	Value	Unit
Forward Voltage (Notes 2) @ IF=10mA	V _F	0.9	V
Power Dissipation (Notes 1)	P _d	300	mW
Thermal Resistance, Junction to Ambient Air	R _{θJA}	417	°C/W
Operating junction and Storage Temperature Range	T _J , T _s	-65 to +150	°C

Notes:

1. Alumina=0.4X0.3X0.024in,99.5%alumina

Electrical Characteristics(Ta = 25°C)

Part Number	Nominal Zener Voltage ¹⁾				Dynamic Impedance				Max. Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}				Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	mA	Ω	mA	Ω	mA	uA	V	
BZX84C2V0	2	1.8	2.15	5	100	5	-	-	120	0.5	A8
BZX84C2V2	2.2	2.08	2.33	5	100	5	-	-	120	0.7	B8
BZX84C2V4	2.4	2.2	2.6	5	100	5	600	1	50	1	C8
BZX84C2V7	2.7	2.5	2.9	5	100	5	600	1	20	1	D8
BZX84C3V0	3	2.8	3.2	5	95	5	600	1	10	1	E8
BZX84C3V3	3.3	3.1	3.5	5	95	5	600	1	5	1	F8
BZX84C3V6	3.6	3.4	3.8	5	90	5	600	1	5	1	H8
BZX84C3V9	3.9	3.7	4.1	5	90	5	600	1	3	1	J8
BZX84C4V3	4.3	4	4.6	5	90	5	600	1	3	1	K8
BZX84C4V7	4.7	4.4	5	5	80	5	500	1	3	2	M8
BZX84C5V1	5.1	4.8	5.4	5	60	5	480	1	2	2	N8
BZX84C5V6	5.6	5.2	6	5	40	5	400	1	1	2	P8
BZX84C6V2	6.2	5.8	6.6	5	10	5	150	1	3	4	R8
BZX84C6V8	6.8	6.4	7.2	5	15	5	80	1	2	4	X8
BZX84C7V5	7.5	7	7.9	5	15	5	80	1	1	5	Y8
BZX84C8V2	8.2	7.7	8.7	5	15	5	80	1	0.7	5	Z8
BZX84C9V1	9.1	8.5	9.6	5	15	5	100	1	0.5	6	A9
BZX84C10	10	9.4	10.6	5	20	5	150	1	0.2	7	B9
BZX84C11	11	10.4	11.6	5	20	5	150	1	0.1	8	C9
BZX84C12	12	11.4	12.7	5	25	5	150	1	0.1	8	D9
BZX84C13	13	12.4	14.1	5	30	5	170	1	0.1	8	E9
BZX84C15	15	13.8	15.6	5	30	5	200	1	0.05	10.5	F9
BZX84C16	16	15.3	17.1	5	40	5	200	1	0.05	11.2	H9
BZX84C18	18	16.8	19.1	5	45	5	225	1	0.05	12.6	J9
BZX84C20	20	18.8	21.2	5	55	5	225	1	0.05	14	K9
BZX84C22	22	20.8	23.3	5	55	5	250	1	0.05	15.4	M9
BZX84C24	24	22.8	25.6	5	70	5	250	1	0.05	16.8	N9
BZX84C27	27	25.1	28.9	2	80	2	300	0.5	0.05	18.9	P9
BZX84C30	30	28	32	2	80	2	300	0.5	0.05	21	R9
BZX84C33	33	31	35	2	80	2	325	0.5	0.05	23.1	X9
BZX84C36	36	34	38	2	90	2	350	0.5	0.05	25.2	Y9
BZX84C39	39	37	41	2	130	2	350	0.5	0.05	27.3	Z9
BZX84C43	43	40	46	2	150	2	375	0.5	0.05	30.1	A0
BZX84C47	47	44	50	2	170	2	375	0.5	0.05	32.9	B0
BZX84C51	51	48	54	2	180	2	400	0.5	0.05	35.7	C0
BZX84C56	56	52	60	2	200	2	425	0.5	0.05	39.2	D0
BZX84C62	62	58	66	2	215	2	450	0.5	0.05	43.4	E0
BZX84C68	68	64	72	2	240	2	475	0.5	0.05	47.6	F0
BZX84C75	75	70	79	2	255	2	500	0.5	0.05	52.5	H0

Notes:

1. Tested with pulses $t_p = 20ms$.

RATING AND CHARACTERISTIC CURVES

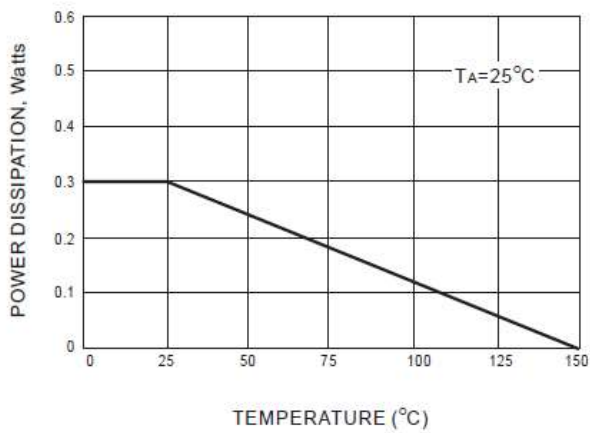


Fig.1 STEADY STATE POWER DERATING

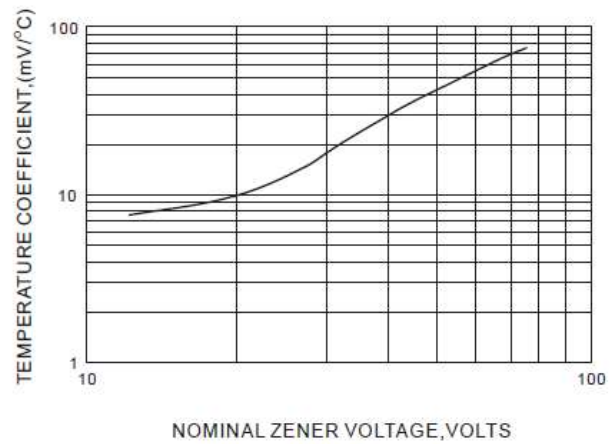


Fig.2 TEMPERATURE COEFFICIENTS

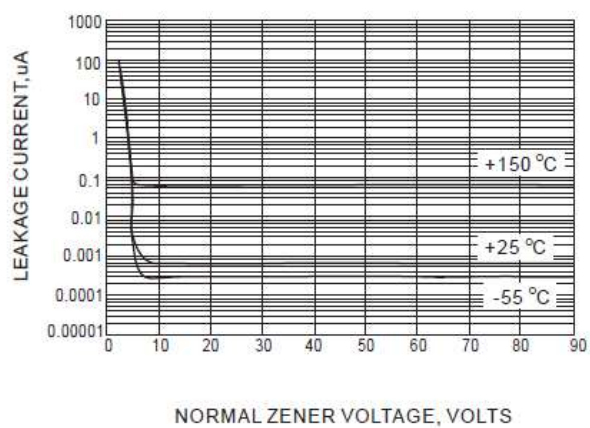


Fig.3 TYPICAL LEAKAGE CURRENT

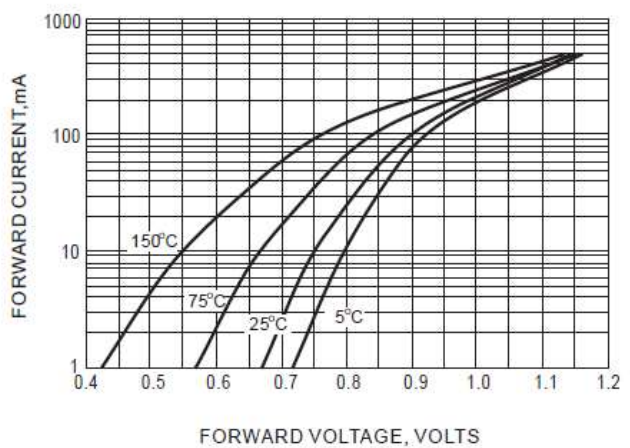
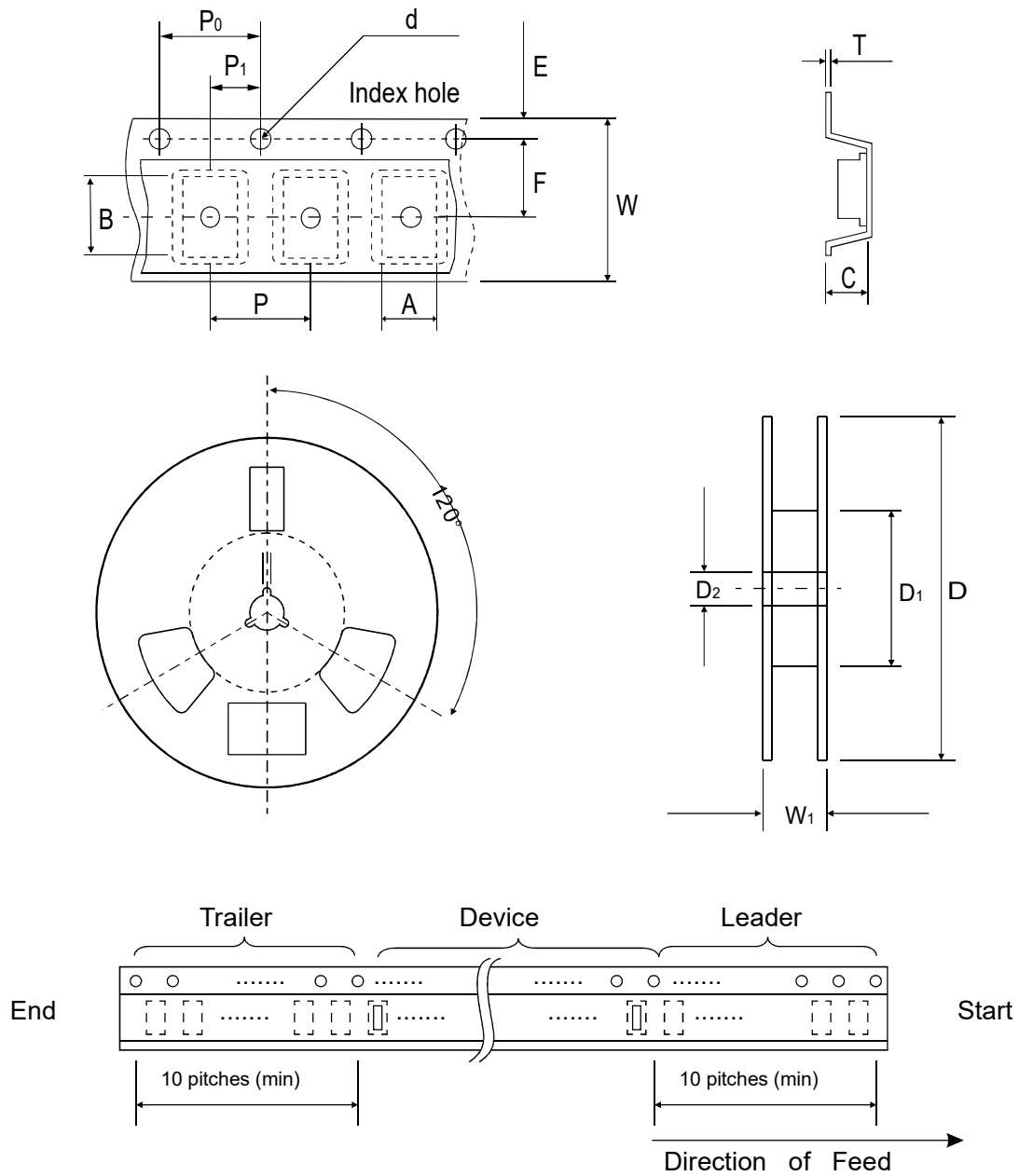


Fig.4 TYPICAL FORWARD VOLTAGE

Reel Taping Specification

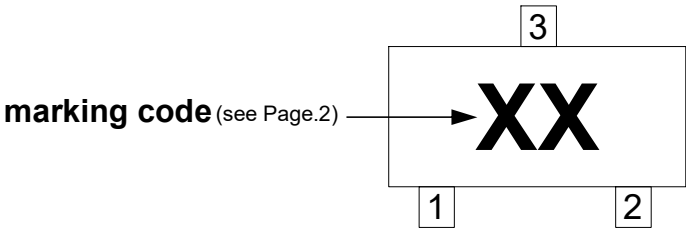


SOT-23	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	3.15 ± 0.10	2.77 ± 0.10	1.22 ± 0.10	1.50 ± 0.10	178 ± 1.00	54.40 ± 0.40	13.00 ± 0.20
	(inch)	0.124 ± 0.004	0.109 ± 0.004	0.048 ± 0.004	0.059 ± 0.004	7.008 ± 0.039	2.142 ± 0.016	0.512 ± 0.008

SOT-23	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	$8.00 + 0.30 / - 0.10$	9.50 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.158 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	$0.315 + 0.012 / - 0.004$	0.374 ± 0.039

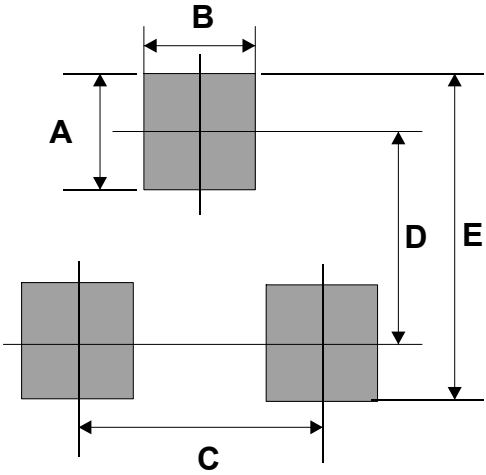
Marking Code

Part Number	Marking Code
BZX84C2V0-HF Thru. BZX84C75-HF	XX



Suggested PAD Layout

SIZE	SOT-23	
	(mm)	(inch)
A	0.90	0.035
B	0.80	0.031
C	1.90	0.075
D	2.02	0.080
E	2.82	0.111



Standard Packaging

Case Type	Qty Per Reel	Reel Size
	(Pcs)	(inch)
SOT-23	3,000	7