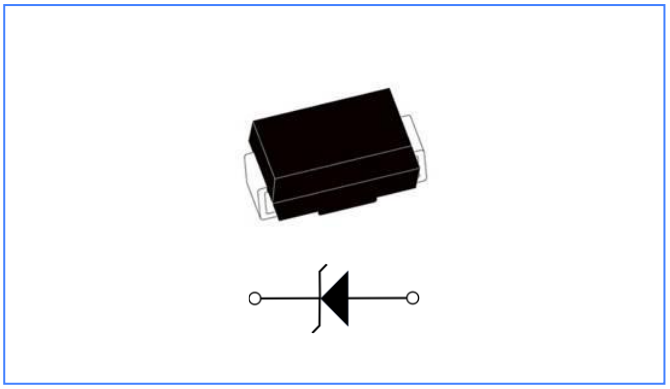
YBZ5D5V1J THRU YBZ5D200J

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94 V-0
- For surface mounted applications
- Low Zener impedance
- Low regulation factor
- High temperature soldering guaranteed: 260 °C/10 seconds at terminal
- Lead and body according with RoHS standard
- Standard voltage tolerance is 5 %
- Terminals: Solder plated



Mechanical Date

- Case: Molded plastic body
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Absolute Maximum Ratings And Characteristics （Ta = 25 °C）

Parameter	Symbol	Value	Unit
Power Dissipation（TL=50℃）	P_D	5	W
Maximum Forward Voltage at IF = 200 mA	V_F	1.5	V
Junction Temperature	T_j,	150	℃
Storage Temperature Range	T_{stg}	-65～+150	℃

NOTE:

(1) TL = Lead temperature at 5.0 mm2 (0.013 mm thick) copper land areas.

Electrical Characteristics

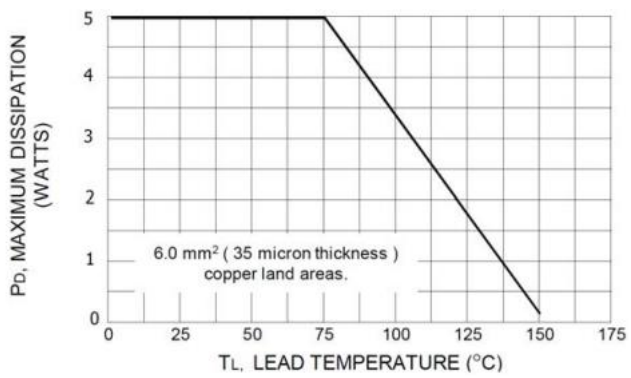
TA = 25 °C unless otherwise noted

Part Number	Nominal Zener Voltage @IT	Test Current	Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current	Maximum Temperature Co-efficient of VBR
	（V）	I_{ZT}(mA)	Zzt max. @I_{ZK} (Ω)	ZZK@IZK (Ω)	IZK (mA)	Ir(uA) @VR	VR (V)	I_{ZM} mA	I_{ZSM} A	%/℃
YBZ5D5V1J	5.1	240	1.5	400	1	1	1	930	14.4	0.047
YBZ5D5V6J	5.6	220	1	400	1	1	2	865	13.4	0.05
YBZ5D6V0J	6.0	200	1	300	1	1	3	790	12.7	0.053
YBZ5D6V2J	6.2	200	1	200	1	1	3	765	12.4	0.054
YBZ5D6V8J	6.8	175	1	200	1	10	5.2	700	11.5	0.057
YBZ5D7V5J	7.5	175	1.5	200	1	10	5.7	630	10.7	0.061
YBZ5D8V2J	8.2	150	1.5	200	1	10	6.2	580	10	0.065
YBZ5D8V7J	8.7	150	2	200	1	10	6.6	545	9.5	0.068
YBZ5D9V1J	9.1	150	2	150	1	7.5	6.9	520	9.2	0.068
YBZ5D10J	10	125	2	125	1	5	7.6	475	8.6	0.073
YBZ5D11J	11	125	2.5	125	1	5	8.4	430	8	0.075
YBZ5D12J	12	100	2.5	125	1	2	9.1	395	7.5	0.078

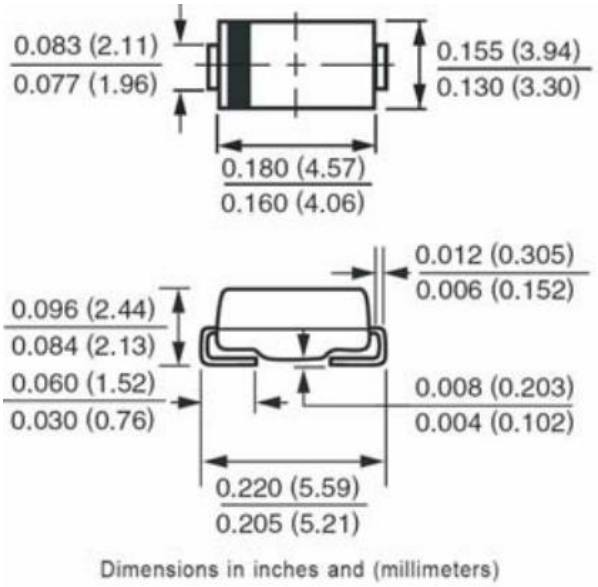
YBZ5D13J	13	100	2.5	100	1	1	9.9	365	7	0.081
YBZ5D14J	14	100	2.5	75	1	1	10.6	340	6.7	0.082
YBZ5D15J	15	75	2.5	75	1	1	11.5	315	6.3	0.084
YBZ5D16J	16	75	2.5	75	1	1	12.2	295	6	0.086
YBZ5D17J	17	70	2.5	75	1	0.5	12.9	280	5.8	0.088
YBZ5D18J	18	65	2.5	75	1	0.5	13.7	265	5.5	0.088
YBZ5D19J	19	65	3	75	1	0.5	14.4	250	5.3	0.09
YBZ5D20J	20	65	3	75	1	0.5	15.2	237	5.1	0.09
YBZ5D22J	22	50	3.5	75	1	0.5	16.7	216	4.7	0.092
YBZ5D24J	24	50	3.5	100	1	0.5	18.2	198	4.4	0.094
YBZ5D25J	25	50	4	110	1	0.5	19	190	4.3	0.093
YBZ5D27J	27	50	5	120	1	0.5	20.6	176	4.1	0.096
YBZ5D28J	28	50	6	130	1	0.5	21.2	170	3.9	0.096
YBZ5D30J	30	40	8	140	1	0.5	22.8	158	3.7	0.097
YBZ5D33J	33	40	10	150	1	0.5	25.1	144	3.5	0.098
YBZ5D36J	36	30	11	160	1	0.5	27.4	132	3.3	0.099
YBZ5D39J	39	30	14	170	1	0.5	29.7	122	3.1	0.1
YBZ5D43J	43	30	20	190	1	0.5	32.7	110	2.8	0.101
YBZ5D47J	47	25	25	210	1	0.5	35.8	100	2.7	0.101
YBZ5D51J	51	25	27	230	1	0.5	38.8	93	2.5	0.102
YBZ5D56J	56	20	35	280	1	0.5	42.6	86	2.3	0.103
YBZ5D60J	60	20	40	350	1	0.5	45.5	79	2.2	0.104
YBZ5D62J	62	20	42	400	1	0.5	47.1	76	2.1	0.104
YBZ5D68J	68	20	44	500	1	0.5	51.7	70	2	0.104
YBZ5D75J	75	20	45	620	1	0.5	56	63	1.9	0.105
YBZ5D82J	82	15	65	720	1	0.5	62.2	58	1.8	0.105
YBZ5D87J	87	15	75	760	1	0.5	66	54.5	1.7	0.105
YBZ5D91J	91	15	75	760	1	0.5	69.2	52.5	1.6	0.106
YBZ5D100J	100	12	90	800	1	0.5	76	47.5	1.5	0.106
YBZ5D110J	110	12	125	1000	1	0.5	83.6	43	1.4	0.107
YBZ5D120J	120	10	170	1150	1	0.5	91.2	39.5	1.3	0.107
YBZ5D130J	130	10	190	1250	1	0.5	98.8	36.6	1.2	0.107
YBZ5D140J	140	8	230	1500	1	0.5	106	34	1.2	0.108
YBZ5D150J	150	8	330	1500	1	0.5	114	31.6	1.1	0.108
YBZ5D160J	160	8	350	1650	1	0.5	122	29.4	1.1	0.108
YBZ5D170J	170	8	380	1750	1	0.5	129	28	1	0.108
YBZ5D180J	180	5	430	1750	1	0.5	137	26.4	1	0.108
YBZ5D190J	190	5	450	1850	1	0.5	144	25	0.9	0.108
YBZ5D200J	200	5	480	1850	1	0.5	152	23.6	0.9	0.108

Typical Characteristics

Fig.1Power Temperature Derating Curve

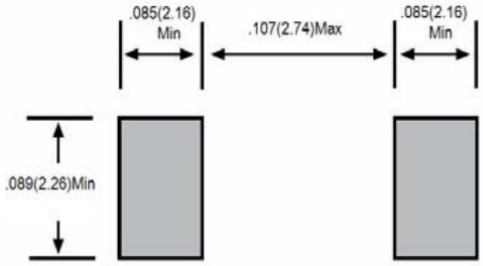


Package Outline



Dimensions in inches and (millimeters)

Mounting Pad Layout:



Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.