

SMALL-SIGNAL TRANSISTORS & DIODES & MEDIUM-POWER RECTIFIERS

Small-signal diodes

ZENER DIODES OVERVIEW

	leaded			surface-mount				
	DO-35	DO-34	DO-41	SOD80C	SOD110	SOT23	SOT89	SOT223
P_{tot} max. ▶	0.5 W	0.4 W	1.3 W	0.5 W	0.4 W	0.35 W	1.0 W	1.5 W
6.5 V nominal working voltage:								
5% tol.	BZV37 ¹⁾							
series in 2.4 to 75 V nominal working voltage range:								
1% tol.	BZX79A						BZX84A	
2% tol.	BZX79B			BZV55B	BZX284B	BZX84B		
3% tol.	BZX79F			BZV55F				
5% tol.	BZX79C		BZV85C ²⁾	BZV55C	BZX284C	BZX84C	BZV49C	BZV90C
5% tol.	BZX55C							
series in 3.0 to 75 V nominal working voltage range:								
5% tol.	1N5225B to 1N5267B ⁴⁾		1N4728A to 1N4749A ⁵⁾	PMLL5225B to PMLL5267B ⁴⁾			PMBZ5226B to PMBZ5257B ³⁾	

¹⁾ symmetrical diode

²⁾ 3.6 V to 75 V nominal working voltage range

³⁾ 3.3 V to 33 V nominal working voltage range

⁴⁾ 3.0 V to 75 V nominal working voltage range

⁵⁾ 3.3 V to 24 V nominal working voltage range



ZENER DIODES

type number	V_Z nom.		I_{FRM} max. (mA)	P_{tot} max. (W)	@ T_{tp} (°C)	P_{ZSM} ¹⁾ max. (W)	@ T_i (°C)	package
	E24 range (V)	tolerance (%)						
LEADED TYPES								
BZV37	6.5	5	–	0.4	50 ²⁾	40	25	DO-34
BZV85 series	3.6 to 75	5	250	1.3	55	60	25	DO-41
BZX55 series	2.4 to 75	5	250	0.5	50	40	25	DO-35
BZX79 series	2.4 to 75	1,2,3 or 5	250	0.5	50	40	25	DO-35
1N4728A to 1N4749A	3.3 to 24	5	–	1	50 ²⁾	–	–	DO-41
1N5225B to 1N5267B			3.0 to 75	5	250	0.5	75	10 ³⁾
SURFACE-MOUNT TYPES								
BZV49 series	2.4 to 75	5	250	1	25 ²⁾	40	25	SOT89
BZV55 series	2.4 to 75	2,3 or 5	250	0.5	50	30	150	SOD80C
BZV90 series	2.4 to 75	5	400	1.3	25 ²⁾	40	25	SOT223
BZX84 series	2.4 to 75	1,2 or 5	250	0.3	25 ²⁾	–	–	SOT23
BZX284 series	2.4 to 75	2 or 5	250	0.4	25 ²⁾	–	–	SOD110
PMBZ5226B to PMBZ5257B	3.3 to 33	5	250	0.3	25 ²⁾	–	–	SOT23
PMLL5225B to PMLL5267B			3.0 to 75	5	250	0.5	75	10 ³⁾

¹⁾ at $t_p = 100 \mu s$

²⁾ T_{amb}

³⁾ at $t_p = 8.3 ms$