

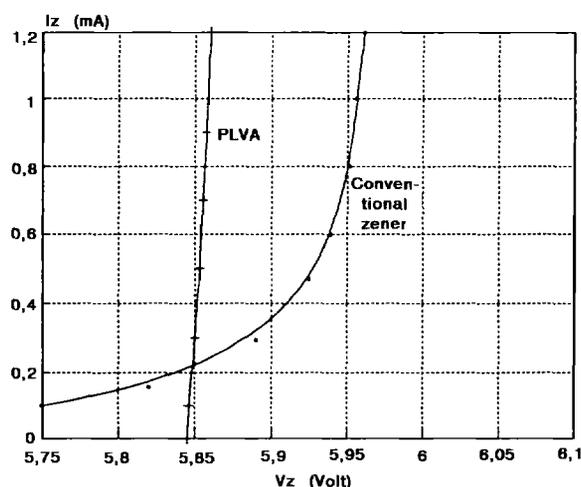
Surface Mount Devices

Low Voltage Avalanche (LVA) Zener Diodes

Unlike Conventional zener diodes, Philips low voltage avalanche diodes provide an extremely sharp zener characteristic in the microamp current range. This, in addition to low dynamic resistance, leakage current and noise level, makes the LVA diode an ideal choice for low current, low power, low noise applications. Additional information on these LVA diodes is available in Technical Publication SCO11 (PC688).

LVA Zener Diodes, SOT-23 (250 mW)

Type	V_z				Maximum Differential Resistance R_z at I_z		Typical Temperature Coefficient S_z at I_z		Typical Reverse Current I_R at V_R	
	V			@ I_z μA	Ω	μA	mV/K	μA	μA	V
	min	typ	max							
PLVA650A	4.8	5.0	5.2	250	700	250	0.2	250	21	4.5
PLVA653A	5.1	5.3	5.5	250	250	250	1.6	250	3.5	4.77
PLVA656A	5.4	5.6	5.8	250	100	250	1.9	250	1.3	5.04
PLVA659A	5.7	5.9	6.1	250	100	250	2.4	250	1.0	5.31
PLVA662A	6.0	6.2	6.4	250	100	250	2.65	250	0.05	5.58
PLVA665A	6.3	6.5	6.7	250	100	250	2.9	250	0.04	5.85
PLVA668A	6.6	6.8	7.0	250	100	250	3.4	250	0.006	6.12



Comparison of I-V characteristics for a typical PLVA and a conventional zener diode