

AEIC-3700-SXX Series

Voltage Monitor IC: Voltage Detector with Internal Reference for Overvoltage and Undervoltage Monitoring

Description

The following cumulative test results have been obtained from testing performed at Broadcom[®] in accordance with the latest revisions of the JEDEC standard. Broadcom tests parts at the absolute maximum rated conditions recommended for the device. The actual performance you obtain from Broadcom parts depends on the electrical and environmental characteristics of your application but will probably be better than the performance outlined in Table 1.

Table 1: Life Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
High Temperature Operating Life	JESD22A-108	Ta = 125 °C for 1000 hours, VDD = 6.5 V ± 0.5 V	75	0
Temperature Humidity Bias		Preconditioning + Ta = 85°C, RH = 85% for 1000 hours, VDD = 6.5V ± 0.5V	75	0
Low Temperature Operating Life	JESD22A-108	Ta = -40 °C for 1000 hours, VDD = 6.5 V ± 0.5 V	32	0

Table 2: Environmental Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Temperature Cycling	JESD22A-104	-65°C to 150°C (Condition C)	75	0
	JESD22-A113	Preconditioning + 500 cycles		
High Temperature Storage Life	JESD22A-103	Ta = 150°C for 1000 hours	75	0
Unbiased Temperature Humidity Test (Unbiased HAST)	JESD22A-118	Preconditioning + Ta = 130°C, RH = 85% for 96 hours	25	0
Autoclave (Unbiased Pressure Pot)	JESD22-A102	121°C/100% RH, 15 psig, 96 hours	25	0
Solderability	J-STD-002	Preconditioning steam age 100°C/100% RH, 8 hours, solder dip 245°C, 5 seconds	10	0

Table 3: Electrical Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Human Body Model ESD	JS-001	2000V	3	0
Charged-Device Model ESD	JS-002	1000V	3	0
Latch-Up	JESD78	Class II (Ta = +125°C)	3	0

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