2018年5月15日星期二

HUAWEI ENTERPRISE A BETTER WAY

Backfeed Test

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Dept: Ethernet Switch Product Field.
Version: V1.0(20180518)

HUAWEI

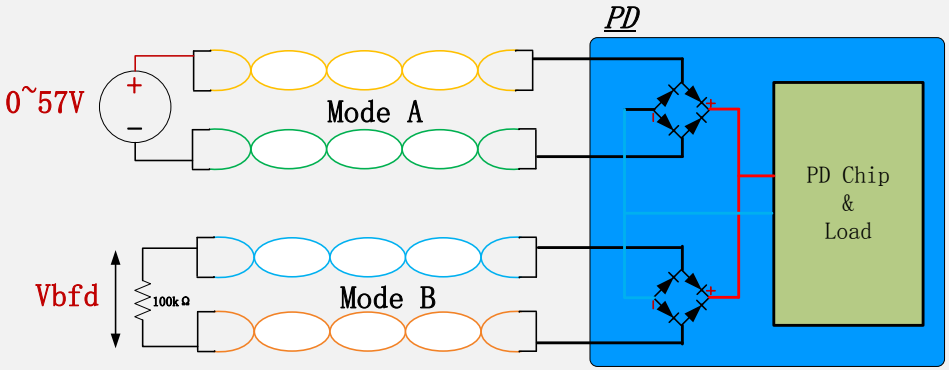
Backfeed Test Model

Put the PD with Discrete Schottky diode bridge into the incubator

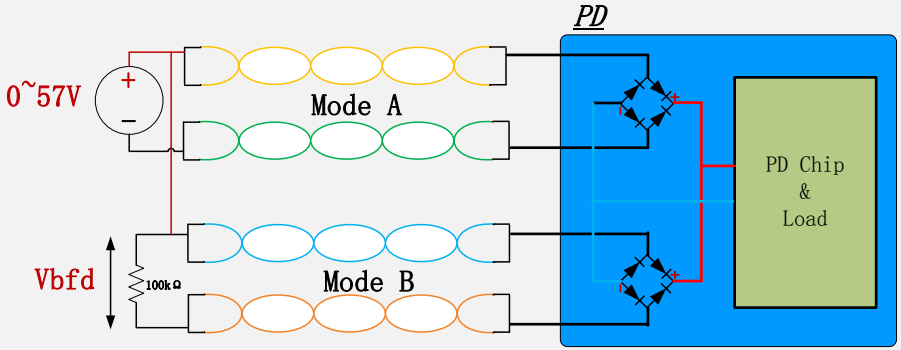
Set the temperature of the incubator

Test the Vbfd of one positive pair PD and two positive pair PD

One positive pair



Two positive pair



Backfeed Test Result

Test Model	Incubator temperature/0℃		Incubator temperature/25℃		Incubator temperature/45℃		Incubator temperature/65℃	
	Vbfd/V	Tdiode/℃	Vbfd/V	Tdiode/℃	Vbfd/V	Tdiode/℃	Vbfd/V	Tdiode/℃
one positive pair, 10.1V	0	0.2	0	25	0	44.1	0.003	66.4
two positive pair, 10.1V	0.04	0.2	0.052	25	0.067	44	0.096	66.4
one positive pair, 21V	0	0.3	0	25.1	0.001	44.4	0.004	66.7
two positive pair, 21V	0.222	0.4	0.238	25.1	0.248	44.3	0.281	66.6
one positive pair, 30V	0	0.4	0	25.1	0.001	44.6	0.006	66.4
two positive pair, 30V	0.226	0.4	0.243	25.1	0.252	44.7	0.288	66.5
one positive pair, 57V	0	4.4	0.001	28.1	0.004	48.5	0.017	69.5
two positive pair, 57V	0.368	4.6	0.398	28.1	0.416	48.5	0.486	69.5

Test results shows that the **Vbfd(0V~57V) of Schottky diodes bridge have no problem under 3p.**

Thank you!