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RENESAS SEMICONDUCTOR RELIABILITY REPORT

APPLICATION: Standard

SERIES: CR05BM-12A

DEVICE: CR05BM-12A#BD0

CR05BM-12A-D#BD0 CR05BM-12A-DTB#BD0 CR05BM-12A-A6#BD0 CR05BM-12A-E#BD0 CR05BM-12A-TB#BD0 CR05BM-12A-ETB#BD0

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1.RELIABILITY TEST

ITEM	TEST CONDITION	Test Results	
		NUMBER OF SAMPLES	NUMBER OF FAILURE
Soldering Heat	Lead Solder DIP (260°Cmax, 10s)	22	0
Solderability	245℃, 5s (Solder wetting area 95% or more)	22	0
High Temperature Bias	Ta=125℃, V _{DRM} =Maximum Rating (AC-peak), 1,000h	22	0
Continuous Operation	Tj=125℃, I _{T(AV)} =Maximum Rating, 1,000h	22	0
High Temperature Storage Life	Ta=125℃, 1,000h	22	0
Temperature Humidity Storage	Ta=85℃, 85%RH, 1,000h	22	0
Temperature Cycle	Ta=-40 $^{\circ}$ C to +125 $^{\circ}$ C, 200cycles	22	0
Electrostatic- Discharge(ESD)HBM	C=100pF, R=1.5k ohm, ±1,000V	3	0
Estimated failure rate	Estimated failure rate : 10Fit or less \cdot Tj= 55°C \cdot Ea = 0.7eV \cdot C.L. = 60%		

Reliability test results may include data from family representative products.

<Judgement criteria>

Electrical characteristics described in the delivery specification.

(Solderability test is excluded.)

 I_{RRM} , I_{DRM} , V_{TM} , V_{GT} , I_{GT}

*However, I_{GT} item free judgment.