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RENESAS SEMICONDUCTOR RELIABILITY REPORT

APPLICATION: Standard

SERIES: BCR12CM-12LB

DEVICE: BCR12CM-12LB#BH0
BCR12CM-12LB-1#BH0

Quality Assurance Div.
Renesas Electronics Corporation

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1.RELIABILITY TEST

ITEM	TEST CONDITION	Test Results	
		NUMBER OF SAMPLES	NUMBER OF FAILURE
Soldering Heat	Lead Solder DIP (260℃max, 10s)	22	0
Solderability	245℃, 5s (Solder wetting area 95% or more)	22	0
High Temperature Bias	Ta=150℃, V_{DRM}=Maximum Rating (AC-peak), 1,000h	22	0
Continuous Operation	Tj=150℃, $I_{T(RMS)}$=Maximum Rating, 1,000h	22	0
High Temperature Storage Life	Ta=150℃, 1,000h	22	0
Temperature Humidity Storage	Ta=85℃, 85%RH, 1,000h	22	0
Temperature Cycle	Ta=-40℃ to +150℃, 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 ・Tj= 55℃ ・Ea = 0.7eV ・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_{DRM}, V_{TM}, V_{FGT1}, V_{RGT1}, V_{RGT3}, I_{FGT1}, I_{RGT1}, I_{RGT3}
*However, I_{FGT1}, I_{RGT1}, I_{RGT3} is I_{GT} item free judgment.