

Report No. APR-22-H0062 Date: Feb.1 2022

RENESAS SEMICONDUCTOR RELIABILITY REPORT

APPLICATION: Standard

- SERIES: BCR3FM-12LB
- DEVICE: BCR3FM-12LB#BG0 BCR3FM-12LB#BH0 BCR3FM-12LB#CH1 BCR3FM-12LB-1#BG0 BCR3FM-12LB-1#BH0 BCR3FM-12LB1A8#BG0 BCR3FM-12LB1A8#BH0 BCR3FM-12LB1AR#BG0 BCR3FM-12LB1AR#BH0 BCR3FM-12LB1AS#BH0 BCR3FM-12LB-A8#BG0 BCR3FM-12LB-A8#BH0 BCR3FM-12LB-A8#CH1 BCR3FM-12LB-AR#BG0 BCR3FM-12LB-AR#BG1 BCR3FM-12LB-AR#BH0 BCR3FM-12LB-AR#CG4 BCR3FM-12LB-AR#CH1 BCR3FM-12LB-AS#BG0 BCR3FM-12LB-AS#CH1

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°Cmax, 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°C •Ea = 0.7eV •C.L. = 60%		
Reliability test results m	nay include data from family representative products.		
(Solderability test is ex I_{DRM} , V_{TM} , V_{FGT1} , V_{RGT1} , V_{RG	•		