



Report No. APR-24-H0297  
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# RENESAS SEMICONDUCTOR RELIABILITY REPORT

APPLICATION: Standard

SERIES: BCR12LM-14LB

DEVICE: BCR12LM-14LB#B00  
BCR12LM-14LBA#B00  
BCR12LM-14LBA8#B00  
BCR12LM-14LBAS#B00  
BCR12LM-14LBAS#C03  
BCR12LM-14LBAS#C04  
BCR12LM-14LBAS#CF4

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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°C, 5s (Solder wetting area 95% or more)	22	0
High Temperature Bias	Ta=150°C, V <sub>DRM</sub> =Maximum Rating (AC-peak), 1,000h	22	0
Continuous Operation	Tj=150°C, I <sub>T(RMS)</sub> =Maximum Rating, 1,000h	22	0
High Temperature Storage Life	Ta=150°C, 1,000h	22	0
Temperature Humidity Storage	Ta=85°C, 85%RH, 1,000h	22	0
Temperature Cycle	Ta=-40°C to +150°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 •Tj= 55°C •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 <sub>DRM</sub> , V <sub>TM</sub> , V <sub>FGT1</sub> , V <sub>RGT1</sub> , V <sub>RGT3</sub> , I <sub>FGT1</sub> , I <sub>RGT1</sub> , I <sub>RGT3</sub> *However, I <sub>FGT1</sub> , I <sub>RGT1</sub> , I <sub>RGT3</sub> is I <sub>GT</sub> item free judgment.			