

RH850 Family

R 7 F 7 0 1 0 * * 2 A F P

- Package^{*1}
- Quality grade^{*2}
- Temperature^{*3}
- Serial no (depends on each product)
- Series name^{*4}
- Generation 1: First-generation
- Family name 70: RH850Family
- Type of device F: On-chip flash memory
- Renesas MCU

^{*1}: Package

FP,FA,FB	QFP
FT	TQFP
BG, BA	BGA

^{*2}: Quality grade

A	Q1A supported TS
K	Q1A

^{*3}: Temperature

Both Ta and Tj

	Ta	Tj
2	-40°C to +85°C	-40°C to +110°C
3	-40°C to +105°C	-40°C to +130°C
4	-40°C to +125°C	-40°C to +150°C
5	-40°C to +150°C	-40°C to +170°C

Only Tj

	Tj
C	-40°C to +110°C
D	-40°C to +130°C
E	-40°C to +150°C
G	-40°C to +170°C

^{*4}: Series name

0	F series for Body
2	E series for Powertrain
2	C series for HEV/EV
3	P series for Chassis and Safety
4	D series for Instrumentation
5	F series for Body
6	F series for Body

RH850 Family F Series



R	7	F	7	0	1	5	*	*	3	A	B	G
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- Package
FP: QFP
BG: BGA
- Quality grade
A: Q1A supported TS
- Temperature(Ta)
3: -40°C to +105°C
4: -40°C to +125°C
- Serial no (depends on each product)
- Series name
0, 5, 6 : F series for Body
- Generation 1: First-generation
- Family name 70: RH850Family
- Type of device F: On-chip flash memory
- Renesas MCU

RH850 Family P Series



R	7	F	7	0	1	3	*	*	E	A	F	P
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- Package
FP: QFP
BG: BGA
- Quality grade
A: Q1A supported TS
- Temperature(Tj)
E: -40°C to +150°C
- Serial no (depends on each product)
- Series name
3: P series for Chassis and Safety
- Generation 1: First-generation
- Family name 70: RH850Family
- Type of device F: On-chip flash memory
- Renesas MCU

RH850 Family D Series



R	7	F	7	0	1	4	*	*	E	A	B	G
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- Package
FB: QFP
BG: BGA
- Quality grade
A: Q1A supported TS
- Temperature(Tj)
E: -40°C to +150°C
- Serial no (depends on each product)
- Series name
4: D series for Instrumentation
- Generation 1: First-generation
- Family name 70: RH850Family
- Type of device F: On-chip flash memory
- Renesas MCU

RH850 Family C Series



R	7	F	7	0	1	2	*	*	E	A	B	G
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- Package
FP: QFP
BG: BGA
- Quality grade
A: Q1A supported TS
- Temperature(Tj)
E: -40°C to +150°C
- Serial no (depends on each product)
- Series name 2: C series for HEV/EV
- Generation 1: First-generation
- Family name 70: RH850Family
- Type of device F: On-chip flash memory
- Renesas MCU

RH850 Family E Series



R	7	F	7	0	1	2	*	*	E	A	B	A
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- Package, pin count, pin pitch
FA: QFP144, 0.5mm
FP: QFP176, 0.5mm
BG: BGA252, 0.8mm
BA: BGA304, 0.8mm
- Quality grade
A: Q1A supported TS
- Temperature(Tj)
E: -40°C to +150°C
- Serial no (depends on each product)
- Series name
2: E series for Powertrain
- Generation 1: First-generation
- Family name 70: RH850Family
- Type of device F: On-chip flash memory
- Renesas MCU