2024 Edition

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Memory

Serial EEPROM

Standard EEPROM

I²C BUS EEPROM (2-Wire) BR24Gxxx-3 series (SCL Frequency=400kHz)

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Max) (Hz)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G01	F-3	FJ-3	FVT-3	FVM-3	NUX-3	1K	128×8	1.6 to 5.5	2	2	5	400k	−40 to +85	10^6	40
BR24G02	F-3	FJ-3	FVT-3	FVM-3	NUX-3	2K	256×8	1.6 to 5.5	2	2	5	400k			
BR24G04	F-3	FJ-3	FVT-3	FVM-3	NUX-3	4K	512×8	1.6 to 5.5	2	2	5	400k			
BR24G08	F-3	FJ-3	FVT-3	FVM-3	NUX-3	8K	1K×8	1.6 to 5.5	2	2	5	400k			
BR24G16	F-3	FJ-3	FVT-3	FVM-3	NUX-3	16K	2K×8	1.6 to 5.5	2	2	5	400k			
BR24G32	F-3	FJ-3	FVT-3	FVM-3	NUX-3	32K	4K×8	1.6 to 5.5	2	2	5	400k			
BR24G64	F-3	FJ-3	FVT-3	FVM-3	NUX-3	64K	8K×8	1.6 to 5.5	2	2	5	400k			
BR24G128	F-3	FJ-3	FVT-3	FVM-3	NUX-3	128K	16K×8	1.6 to 5.5	2.5	2	5	400k			
BR24G256	F-3	FJ-3	FVT-3	—	—	256K	32K×8	1.6 to 5.5	2.5	2	5	400k			

I²C BUS EEPROM (2-Wire) BR24Gxxx-3A series (SCL Frequency=1MHz)

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Max) (Hz)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G01	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	1K	128×8	1.7 to 5.5	2	2	5	1M	−40 to +85	10^6	40
BR24G02	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	2K	256×8	1.7 to 5.5	2	2	5	1M			
BR24G04	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	4K	512×8	1.7 to 5.5	2	2	5	1M			
BR24G08	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	8K	1K×8	1.7 to 5.5	2	2	5	1M			
BR24G16	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	16K	2K×8	1.7 to 5.5	2	2	5	1M			

I²C BUS EEPROM (2-Wire) BR24Gxxx-5x series (SCL Frequency=1MHz/Endurance=4million times)

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Max) (Hz)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G32	F-5	FJ-5	FVT-5	FVM-5	NUX-5	32K	4K×8	1.6 to 5.5	2	2.5	5	1M	−40 to +85	4×10^6	200
BR24G64	F-5	FJ-5	FVT-5	FVM-5	NUX-5	64K	8K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G128	F-5	FJ-5	FVT-5	FVM-5	NUX-5	128K	16K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G256	F-5	FJ-5	FVT-5	FVM-5	NUX-5	256K	32K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G512	F-5A	FJ-5A	FVT-5A	FVM-5A	—	512K	64K×8	1.6 to 5.5	3	5	3.5	1M			
BR24G1M	F-5A	FJ-5A	FVT-5A	—	—	1M	128K×8	1.7 to 5.5	3	5	3.5	1M			

Standard EEPROM

SPI BUS EEPROM BR25Gxxx-3 series

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
BR25G320	F-3	FJ-3	FVT-3	FVM-3	NUX-3	32K	4K×8	1.6 to 5.5	8	2	5	−40 to +85	10^6	100
BR25G640	F-3	FJ-3	FVT-3	FVM-3	NUX-3	64K	8K×8	1.6 to 5.5	8	2	5			
BR25G128	F-3	FJ-3	FVT-3	FVM-3	NUX-3	128K	16K×8	1.6 to 5.5	8	2	5			
BR25G256	F-3	FJ-3	FVT-3	—	—	256K	32K×8	1.6 to 5.5	8	2	5			
BR25G512	F-3	FJ-3	FVT-3	—	—	512K	64K×8	1.8 to 5.5	4	1	5			
BR25G1M	F-3	FJ-3	—	—	—	1M	128K×8	1.8 to 5.5	4	1	5			

SPI BUS EEPROM BR25Gxxx5A series

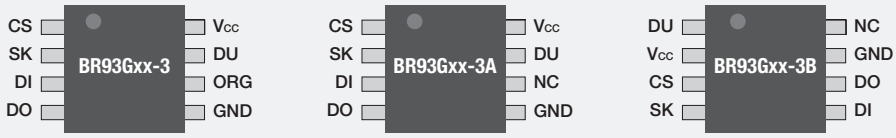
Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
New BR25G128	FJ-5A	FVT-5A	FVM-5A	NUX-5A	128K	16K×8	1.6 to 5.5	8	2.5	3.5	−40 to +85	$4×10^6$	200
New BR25G256	FJ-5A	FVT-5A	FVM-5A	NUX-5A	256K	32K×8	1.6 to 5.5	8	2.5	3.5		$4×10^6$	200
New BR25G512	FJ-5A	FVT-5A	FVM-5A	—	512K	64K×8	1.6 to 5.5	8	5	3.5		$4×10^6$	200
New BR25G1M	FJ-5A	FVT-5A	—	—	1M	128K×8	1.8 to 5.5	8	5	3.5		$4×10^6$	200

Microwire BUS EEPROM (3-Wire) BR93Gxx-3/3A/3B series

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
BR93G46	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2	1K	64×16 (128×8)	1.7 to 5.5	3	2	5	−40 to +85	10^6	40
BR93G56	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	2K	128×16 (256×8)	1.7 to 5.5	3	2	5			
BR93G66	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	4K	256×16 (512×8)	1.7 to 5.5	3	2	5			
BR93G76	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2	FVT-3*1/ FVT-3A*2	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	8K	512×16 (1K×8)	1.7 to 5.5	3	2	5			
BR93G86	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	16K	1K×16 (2K×8)	1.7 to 5.5	3	2	5			

Microwire BUS EEPROM (3-Wire) BR93Gxx-3/3A/3B series: *1 They are dual organization (by 16bit or 8bit) and it is selected the input of ORG PIN. *2 1PIN: CS PIN *3 3PIN: CS PIN

Microwire BUS Pin Assignment



Selectable Bit Format (8bit or 16bit)

Interchangeable with the BR93LxxRxx-W series

Rotated Pins

WL-CSP EEPROM

Part No.	I/F	Density (bit)	Package					Pull-up Resister	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Data Retention (years)
			Package Name	Size (mm)	Thickness (mm) (Max)	Ball Pitch (mm)	RESIN COATING				Operating (mA)	Standby (μA)			
BU9833GUL-W	I²C	2K	VCSP50L1	x: 1.27 y: 1.50	0.55	0.5	✓	—	256×8	1.7 to 5.5	2	2	5	−40 to +85	40
BU9847GUL-W		4K	VCSP50L1	x: 1.95 y: 1.06	0.55	0.5	✓	—	512×8	1.7 to 5.5	2	2	5	−40 to +85	40
BU9889GUL-W		8K	VCSP50L1	x: 1.60 y: 1.00	0.55	0.5	✓	—	1K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCB008GWZ-3		8K	UCSP30L1	x: 0.94 y: 0.94	0.33	0.4	—	—	1K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCB016GWL-3U		16K	UCSP50L1	x: 1.10 y: 1.15	0.55	0.4	✓	—	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCD016GWZ-3		16K	UCSP35L1	x: 1.30 y: 0.77	0.40	0.4	✓	—	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCG016GWZ-3		16K	UCSP30L1A	x: 0.82 y: 0.82	0.33	0.4	✓	—	2K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCF016GWZ-3		16K	UCSP30L1	x: 0.86 y: 0.84	0.35	0.4	—	—	2K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCA016GWZ-W		16K	UCSP30L1	x: 1.30 y: 0.77	0.35	0.4	—	—	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCB032GWZ-3		32K	UCSP30L1	x: 1.45 y: 0.77	0.33	0.4	—	—	4K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BRCH064GWZ-3		64K	UCSP30L1A	x: 1.50 y: 1.00	0.33	0.4	✓	—	8K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BRCB064GWZ-3		64K	UCSP30L1	x: 1.50 y: 1.00	0.35	0.4	—	WP	8K×8	1.6 to 5.5	3.9	2	5	−40 to +85	40
BRCE064GWZ-3		64K	UCSP25L1	x: 1.50 y: 1.00	0.30	0.4	—	—	8K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BU9897GUL-W		128K	VCSP50L2	x: 2.44 y: 1.99	0.55	0.5	✓	—	16K×8	1.7 to 5.5	2.5	2	5	−40 to +85	40
BU9832GUL-W	SPI	8K	VCSP50L2	x: 2.09 y: 1.85	0.55	0.5	✓	—	1K×8	1.8 to 5.5	3	2	5	−40 to +85	40
BU9829GUL-W		16K	VCSP50L1	x: 1.74 y: 1.65	0.55	0.5	✓	—	2K×8	1.6 to 3.6	2	1	5	−30 to +85	10
BR25S128GUZ-W		128K	VCSP35L2	x: 2.00 y: 2.63	0.40	0.5	✓	—	16K×8	1.7 to 5.5	2*	2	5	−40 to +85	40
BU9891GUL-W	MW	4K	VCSP50L1	x: 1.60 y: 1.00	0.55	0.5	✓	—	256×16	1.7 to 5.5	3	2	5	−40 to +85	40

WL-CSP EEPROM: *V_{CC}=2.5V

Plug & Play EEPROM For Memory Modules

Part No.	Package and Suffix		Bit Format (word×bit)	Supply Voltage (V)	Clock Frequency (kHz)	Write Cycle Time (ms)	Endurance (times)	Data Retention (years)	Write Protect
	TSSOP-B8	VSON008X2030							
BR34L02	FVT-W	—	256×8	1.7 to 5.5	100*1/400*2	5	10^6	40	Onetime ROM write protect
BR34E02	FVT-3/FVT-W	NUX-3/NUX-W	256×8	1.7 to 5.5/ 1.7 to 3.6	400	5	10^6	40	Settable write protect Onetime ROM write protect

Plug & Play EEPROM For Memory Modules: *1 V_{CC}=1.7 to 5.5V *2 V_{CC}=2.5 to 5.5V

Plug & Play EEPROM For Display

Part No.	Package and Suffix							Function Descriptions	Bit Format (word×bit)	Supply Voltage (V)	Clock Frequency (MHz)	Write Cycle Time (ms)
	SOP8	SOP-J8	SSOP-B8	SOP14	SSOP-B14	SSOP-B16	VSON008X2030					
BR24C21	F	FJ	FV	—	—	—	—	Supports DDC1/DDC2 for displays	128×8	2.5 to 5.5	100/400	10
BU9882	—	—	—	F-W	FV-W	—	—	Dual-port type compatible with DDC2 for displays	128×8×2ch	2.5 to 5.5	100/400	10
BU9883	—	—	—	—	—	FV-W	—	2Kbit×3ch EEPROM for HDMI ports	256×8×3ch	3.0 to 5.5	400	5
BU99022	—	—	—	—	—	—	NUX-3	2Kbit×2ch type	256×8×2ch	1.7 to 5.5	400	5

Automotive EEPROM

125°C Operation I²C BUS EEPROM (2-Wire) BR24Hxxx-5AC series

Part No.	Package and Suffix						Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030	VSON08AX2030				Operating (mA)	Standby (μA)						
BR24H01	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	1K	128×8	1.7 to 5.5	1.7	10	3.5	−40 to +125	4×10^6	100	FSs	YES
BR24H02	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	2K	256×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H04	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	4K	512×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H08	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	8K	1K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H16	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	16K	2K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H32	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	32K	4K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H64	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	64K	8K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H128	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	128K	16K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H256	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	256K	32K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H512	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	—	512K	64K×8	1.7 to 5.5	3	20	3.5				FSs	
BR24H1M	F-5AC	FJ-5AC	FVT-5AC	—	—	—	1M	128K×8	2.5 to 5.5	3	20	3.5				FSs	

105°C Operation I²C BUS EEPROM (2-Wire) BR24Axx-WM series

Part No.	Package and Suffix			Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	MSOP8				Operating (mA)	Standby (μA)						
BR24A01A	F-WM	FJ-WM	—	1K	128×8	2.5 to 5.5	2	2	5	−40 to +105	10^6	40	FSs	YES
BR24A02	F-WM	FJ-WM	FVM-WM	2K	256×8	2.5 to 5.5	2	2	5				FSs	
BR24A04	F-WM	FJ-WM	—	4K	512×8	2.5 to 5.5	2	2	5				FSs	
BR24A08	F-WM	FJ-WM	—	8K	1K×8	2.5 to 5.5	2	2	5				FSs	
BR24A16	F-WM	FJ-WM	—	16K	2K×8	2.5 to 5.5	2	2	5				FSs	
BR24A32	F-WM	—	—	32K	4K×8	2.5 to 5.5	3	2	5				FSs	
BR24A64	F-WM	—	—	64K	8K×8	2.5 to 5.5	3	2	5				FSs	

85°C Operation I²C BUS EEPROM (2-Wire) BR24Txx-3AM series

Part No.	Package and Suffix			Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8				Operating (mA)	Standby (μA)						
BR24T512	F-3AM	FJ-3AM	FVT-3AM	512K	64K×8	1.7 to 5.5	4.5	3	5	−40 to +85	10^6	40	FSs	YES
BR24T1M	F-3AM	FJ-3AM	—	1M	128K×8	1.7 to 5.5	4.5	3	5				FSs	

125°C Operation Microwire BUS EEPROM (3-Wire) BR93Hxx-2C series

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR93H46	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	1K	64×16	2.5 to 5.5	3	10	4	−40 to +125	10^6	100	FSs	YES
BR93H56	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	2K	128×16	2.5 to 5.5	3	10	4				FSs	
BR93H66	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	4K	256×16	2.5 to 5.5	3	10	4				FSs	
BR93H76	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	8K	512×16	2.5 to 5.5	3	10	4				FSs	
BR93H86	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	16K	1K×16	2.5 to 5.5	3	10	4				FSs	

105°C Operation Microwire BUS EEPROM (3-Wire) BR93Axx-WM series

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR93A46	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	1K	64×16	2.5 to 5.5	3	2	5	−40 to +105	10^6	40	FSs	YES
BR93A56	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	2K	128×16	2.5 to 5.5	3	2	5				FSs	
BR93A66	—	RFJ-WM	RFVT-WM	RFVM-WM	4K	256×16	2.5 to 5.5	3	2	5				FSs	
BR93A76	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	8K	512×16	2.5 to 5.5	3	2	5				FSs	
BR93A86	—	RFJ-WM	RFVT-WM	RFVM-WM	16K	1K×16	2.5 to 5.5	3	2	5				FSs	

*1 For more information about "ComfySIL™ Functional Safety", please refer to the reverse side of the cover.

Automotive EEPROM

125°C Operation Built-in ECC Function SPI BUS EEPROM BR25Hxxx-5AC series

Part No.	Package and Suffix						Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030	VSON08AX2030				Operating (mA)	Standby (μA)						
BR25H010	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	1K	128×8	1.7 to 5.5	8	10	3.5	−40 to +125	4×10⁶	100	FSs	YES
BR25H020	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	2K	256×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H040	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	4K	512×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H080	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	8K	1K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H160	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	16K	2K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H320	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	32K	4K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H640	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	64K	8K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H128	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	128K	16K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H256	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	256K	32K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H512	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	–	512K	64K×8	1.7 to 5.5	8	20	3.5				FSs	
BR25H1M	F-5AC	FJ-5AC	FVT-5AC	–	–	–	1024K	128K×8	1.7 to 5.5	8	20	3.5				FSs	

125°C Operation SPI BUS EEPROM with ECC Function BR25Hxxx-2AC series

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR25H640	F-2AC	FJ-2AC	FVT-2AC	FVM-2AC	64K	8K×8	2.5 to 5.5	5.5	10	4	−40 to +125	10⁶	100	FSs	YES
BR25H128	F-2AC	FJ-2AC	FVT-2AC	–	128K	16K×8	2.5 to 5.5	5.5	10	4				FSs	
BR25H256	F-2AC	FJ-2AC	–	–	256K	32K×8	2.5 to 5.5	5.5	10	4				FSs	

125°C Operation SPI BUS EEPROM BR25Hxxx-2C series

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR25H010	F-2C	FJ-2C	FVT-2C	FVM-2C	1K	128×8	2.5 to 5.5	4	10	4	−40 to +125	10⁶	100	FSs	YES
BR25H020	F-2C	FJ-2C	FVT-2C	FVM-2C	2K	256×8	2.5 to 5.5	4	10	4				FSs	
BR25H040	F-2C	FJ-2C	FVT-2C	FVM-2C	4K	512×8	2.5 to 5.5	4	10	4				FSs	
BR25H080	F-2C	FJ-2C	FVT-2C	FVM-2C	8K	1K×8	2.5 to 5.5	4	10	4				FSs	
BR25H160	F-2C	FJ-2C	FVT-2C	FVM-2C	16K	2K×8	2.5 to 5.5	4	10	4				FSs	
BR25H320	F-2C	FJ-2C	FVT-2C	FVM-2C	32K	4K×8	2.5 to 5.5	4	10	4				FSs	
BR25H640	F-2C	FJ-2C	FVT-2C	–	64K	8K×8	2.5 to 5.5	5.5	10	4				FSs	
BR25H128	F-2C	FJ-2C	–	–	128K	16K×8	2.5 to 5.5	5.5	10	4				FSs	

105°C Operation SPI BUS EEPROM BR25Axxx-3M series

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (μA)						
BR25A256	F-3M	FJ-3M	FVT-3M	–	256K	32K×8	2.5 to 5.5	4	10	5	−40 to +105	10⁶	100	FSs	YES
BR25A512	F-3M	FJ-3M	FVT-3M	–	512K	64K×8	2.5 to 5.5	4	10	5				FSs	
BR25A1M	F-3M	FJ-3M	–	–	1M	128K×8	2.5 to 5.5	4	10	5				FSs	

*1 For more information about "ComfySIL™ Functional Safety", please refer to the reverse side of the cover.