

PCMCIA/JEIDA LOW POWER STATIC RAM

UNDER DEVELOPMENT

1. VARIATION

Part Number	Memory Size	Description
LWB065ES**	64K BYTE	32K × 16 bit MIX CMOS LOW POWER SRAM CARD
LWB129ES**	128K BYTE	64K × 16 bit MIX CMOS LOW POWER SRAM CARD
LWB257ES**	256K BYTE	128K × 16 bit MIX CMOS LOW POWER SRAM CARD
LWB513ES**	512K BYTE	256K × 16 bit MIX CMOS LOW POWER SRAM CARD
LWB101ES**	1M BYTE	512K × 16 bit MIX CMOS LOW POWER SRAM CARD
LWB201ES**	2M BYTE	1M × 16 bit MIX CMOS LOW POWER SRAM CARD

2. OUTLINE OF FUNCTIONS AND FEATURES

- (1) This memory card conforms to PCMCIA/JEIDA.
- (2) Implements low standby current.
- (3) Size of the card: 85.6 × 54.0 × 0.33 mm
- (4) Includes exclusive IC's for the control of I/O and power functions.
- (5) Supports 2 types of exclusive attribute memory.
 - (5-1) LWB***ESX* : With 2K Bytes EEPROM which can be read/written.
 - (5-2) LWB***ESY* : Without exclusive attribute memory (output "FFh", read only)
- (6) Two digital outputs (BVD1 and BVD2) for the condition of battery voltage
- (7) A write protect switch for protection from accidental overwriting
 The WP pin outputs VOL in the write enable status and VOH on the write inhibit status when VCC supply voltage is applied to the card.
 The write protect switch interlocks with only the common memory. The exclusive attribute memory is in the write enable status regardless of the condition of the write protect switch.
- (8) Locking mechanism for battery case
 Lock the battery case at data back-up so that data destruction may not be caused by a fall-out of the battery case, for example, when carrying the memory card. After the lock switch is released, the battery can be easily replaced in the status where the card is inserted in the connector on the main unit side.
 Use battery BR2325 or equivalent.
- (9) Access time: 200 ns.

(10) Current consumption

Symbol	Description	Condition	Min	Max	Unit
ISTBY	STANDBY CURRENT	/CE1=/CE2=/WE=/OE=/REG=V _{CC} -0.4V OTHERS=0.4V/V _{CC} -0.4V	—	250	μA
I _{ACT}	ACTIVE CURRENT	/CE1=/CE2=0.4V I _{OUT} =0 mA OTHERS=0.4V/V _{CC} -0.4V INPUT PULSE LEVEL (0.4V/V _{CC} -0.4V)	f=1μS	55	mA
			f=200nS	140	mA

(11) Recommended battery: Use lithium battery BR2325 or equivalent.