

### Melody ICs

SEIKO EPSON's melody ICs offers wide range of features and melodies to suit all applications. Custom melodies are easily implemented with the built-in programmable mask ROMs.

| Part number            |         | Melodies<br>(notes) | Transducer         |                  | Melody selection |                   | Accom-<br>pani-<br>ment | Envelope | Oscillator     |                   | Play mode     |              | Abort<br>play | Power supply voltage<br>(V-typ.) |     |  | Package  | Additional<br>features  |   |   |
|------------------------|---------|---------------------|--------------------|------------------|------------------|-------------------|-------------------------|----------|----------------|-------------------|---------------|--------------|---------------|----------------------------------|-----|--|--|---|---|---|
|                        |         |                     | Dynamic<br>speaker | Piezo-<br>buzzer | Binary<br>code   | Serial<br>trigger |                         |          | Internal<br>RC | External<br>clock | Level<br>hold | One-<br>shot |               | 1.5                              | 3.0 | 5.0                                      |  |   |   |   |
| 7910 series *          |         | 2<br>(128)          | ✓                  | —                | ✓                | —                 | ✓                       | ✓        | —              | ✓                 | ✓             | —            | ✓             | ✓                                | —   | DIP-16pin                                | • High-quality tone, alarm and<br>chime<br>• For driving of a dynamic speaker  |   |   |   |
| 7920 series            |         | 1<br>(64)           | ✓                  | —                | —                |                   | —                       | ✓        | ☆              |                   | ☆             |              | —             | ☆                                |     |  | DIP-8pin/<br>SOP4-8pin   | • For driving of a<br>dynamic speaker<br>(External amplifier) |   |   |
| 7930 series *          |         | 1<br>(64)           | ✓                  | —                | —                |                   | —                       | ✓        | ✓              | —                 | ✓             | ✓            | —             | ✓                                | —   | —  | DIP-14pin  | • For driving of a<br>dynamic speaker                         |   |   |
| SVM*<br>7940<br>series | SVM7942 | 8<br>(512)          | —                  | ✓                | —                | ✓                 | —                       | —        | ✓              | —                 | ✓             | —            | —             | ☆                                | —   | DIP-16pin                                | • Multiple melody type<br>• For driving of a piezo<br>buzzer or an<br>electromagnetic<br>buzzer  |   |   |   |
|                        | SVM7943 | —                   |                    |                  | —                | —                 |                         |          | ✓              | ✓                 |               |              |               |                                  |     |  |  |   |   |   |
|                        | SVM7946 | 4<br>(512)          |                    |                  | ✓                | —                 |                         |          | ✓              | —                 | —             |              |               |                                  |     |  |  |   |   |   |
| SVM*<br>7950<br>series | SVM7954 | 1<br>(64)           | —                  | ✓                | —                |                   | —                       | —        | ✓              | —                 | ✓             | —            | —             | ✓                                | —   | DIP-16pin                                | • For driving of a piezo<br>buzzer or an<br>electromagnetic<br>buzzer  |   |   |   |
|                        | SVM7955 | —                   |                    |                  | —                | —                 | —                       | ✓        | ✓              |                   |               |              |               |                                  |     |  |  |   |   |   |
| SVM<br>7960<br>series  | SVM7960 | 4<br>(127)          | ✓                  | —                | ✓                | —                 | ✓                       | ✓        | —              | ✓                 | ✓             | —            | —             | ☆                                | ☆   | DIP-16pin/<br>SOP1-16pin/<br>SOP1-24pin* | • High-quality tone<br>• For driving of a<br>dynamic speaker<br>• 1.5V/5V<br>◆1: Independent<br>selection of terminals<br>* SVM7962Masq only   |   |   |   |
|                        | SVM7961 |                     |                    |                  |                  |                   |                         |          | —              | ✓                 | —             |              |               |                                  |     |  |  |   |   |   |
|                        | SVM7962 |                     |                    |                  |                  |                   |                         |          | ✓              | —                 | ✓             | —            |               |                                  |     |  |  |   |   |   |
|                        | SVM7963 |                     |                    |                  |                  |                   |                         |          | —              | —                 | ✓             | —            |               |                                  |     |  |  |   |   |   |
|                        | SVM7964 | 3<br>(127)          |                    |                  | ◆1               | —                 |                         |          | ✓              | ✓                 | —             | —            |               |                                  |     |  |  | —   | ✓ | — |
|                        | SVM7965 |                     |                    |                  |                  | —                 |                         |          | —              | ✓                 | —             |              |               |                                  |     |  |  |   |   |   |
|                        | SVM7966 |                     |                    |                  |                  | ✓                 |                         |          | —              | ✓                 | —             |              |               |                                  |     |  |  |   |   |   |
|                        | SVM7967 |                     |                    |                  |                  | —                 |                         |          | —              | ✓                 | —             |              |               |                                  |     |  |  |   |   |   |
| SVM*<br>7970<br>series | SVM7970 | 8<br>(640)          | ✓                  | —                | —                | ✓                 | ✓                       | ☆        | —              | ✓                 | ◆3            |              | ✓             | ☆                                | ☆   | DIP-18pin                                | • High-quality tone<br>• Multiple melody type<br>• For driving of a<br>dynamic speaker<br>• 1.5V/5V<br>◆2: Binary code and<br>serial trigger<br>◆3: Set on each<br>melody                |   |   |   |
|                        | SVM7971 | —                   |                    |                  | —                | ✓                 |                         |          | —              |                   |               |              |               |                                  |     |  |  |   |   |   |
|                        | SVM7972 | 8<br>(640)          |                    |                  | ✓                | —                 |                         |          | —              | ✓                 |               |              |               |                                  |     |  |  | —   |   |   |
|                        | SVM7973 | —                   |                    |                  | —                | ✓                 |                         |          | —              |                   |               |              |               |                                  |     |  |  |   |   |   |
|                        | SVM7974 | 11<br>(640)         |                    |                  | ◆2               | —                 |                         |          | ✓              | —                 |               |              |               |                                  |     |  |  | ✓   | — |   |
|                        | SVM7975 | ✓                   |                    |                  |                  | —                 |                         |          |                |                   |               |              |               |                                  |     |  |  |   |   |   |
| SVM*<br>7990<br>series | SVM7992 | 8<br>(512)          | ✓                  | —                | —                | ✓                 | —                       | ✓        | ✓              | —                 | ✓             | —            | —             | ✓                                | —   | DIP-16pin                                | • Multiple melody type<br>• For driving of a<br>dynamic speaker  |   |   |   |
|                        | SVM7993 | —                   |                    |                  | —                | —                 |                         |          | —              | —                 | ✓             | ✓            |               |                                  |     |  |  |   |   |   |
| SVM*<br>7900<br>series | SVM7902 | 1<br>(64)           | —                  | ✓                | —                |                   | —                       | —        | ✓              | —                 | ✓             | —            | —             | ✓                                | ✓   | DIP-8pin                                 | • For driving of a piezo buzzer or<br>an electromagnetic buzzer<br>◆4: Mask selection of choices if<br>the oscillator resistor is to be<br>externally installed or built into<br>the IC. |   |   |   |
|                        | SVM7903 | —                   |                    |                  | —                | —                 |                         |          | —              | —                 | —             | —            | —             |                                  |     |  |  | —   | — |   |

☆ Mask option.

#: Standard products only.

| Part number      | Melodies (notes) | Transducer      |              | Melody selection |                | Accompaniment | Envelope | Oscillator  |                | Play mode  |          | Abort play | Power supply voltage (V <sub>typ</sub> ) |     |     | Package    | Additional features   |
|------------------|------------------|-----------------|--------------|------------------|----------------|---------------|----------|-------------|----------------|------------|----------|------------|--|-----|-----|------------|---|
|                  |                  | Dynamic speaker | Piezo-buzzer | Binary code      | Serial trigger |               |          | Internal RC | External clock | Level hold | One-shot |            | 1.5                                      | 3.0 | 5.0 |            |   |
| SVM* 7800 Series | SVM7800          | 1<br>(63)       | ✓            | —                | —              | —             | —        | ✓           | —              | —          | —        | —          | ✓  | —   | —   | DIP-8pin   | * For driving of a piezo buzzer or an electromagnetic buzzer<br>◆5: Choice of level hold or one-shot may be selectable by the terminals<br>◆6: One-shot retrigger function                |
|                  | SVM7801          |                 |              |                  |                |               |          | —           | ✓              |            |          |            |  |     |     |            |   |
|                  | SVM7802          |                 |              |                  |                |               |          | ✓           | —              |            |          |            |  |     |     |            |   |
|                  | SVM7803          |                 |              |                  |                |               |          | —           | ✓              |            |          |            |  |     |     |            |   |
|                  | SVM7804          |                 |              |                  |                |               |          | ✓           | —              |            |          |            |  |     |     |            |   |
|                  | SVM7805          |                 |              |                  |                |               |          | —           | ✓              |            |          |            |  |     |     |            |   |
|                  | SVM7806          |                 |              |                  |                |               |          | ✓           | —              | —          | ✓        | ✓          |  |     |     |            |   |
|                  | SVM7807          |                 |              |                  |                |               |          | —           | ✓              |            | ✓        | —          |  |     |     |            |   |
|                  | SVM7808          |                 |              |                  |                |               |          | ✓           | —              |            | ✓        | —          |  |     |     |            |   |
|                  | SVM7809          |                 |              |                  |                |               |          | —           | ✓              |            | ◆6       | —          |  |     |     |            |   |
| SVM* 7820 Series | SVM7820          | 1<br>(63)       | ✓            | —                | —              | —             | —        | ✓           | —              | —          | —        | —          | —  | ✓   | —   | DIP-8pin   | * For driving of a piezo buzzer or an electromagnetic buzzer<br>◆7: Choice of level hold or one-shot can be selected by the terminals<br>◆8: One-shot retrigger function<br>◆9: 3.0V only |
|                  | SVM7821          |                 |              |                  |                |               |          | —           | ✓              |            |          |            |  |     |     |            |   |
|                  | SVM7822          |                 |              |                  |                |               |          | ✓           | —              |            |          |            |  |     |     |            |   |
|                  | SVM7823          |                 |              |                  |                |               |          | —           | ✓              |            |          |            |  |     |     |            |   |
|                  | SVM7824          |                 |              |                  |                |               |          | ✓           | —              |            |          |            |  |     |     |            |   |
|                  | SVM7825          |                 |              |                  |                |               |          | —           | ✓              |            |          |            |  |     |     |            |   |
|                  | SVM7826          |                 |              |                  |                |               |          | ✓           | —              | —          | ✓        | ✓          |  |     |     |            |   |
|                  | SVM7827          |                 |              |                  |                |               |          | —           | ✓              |            | ✓        | —          |  |     |     |            |   |
|                  | SVM7828          |                 |              |                  |                |               |          | ✓           | —              |            | ✓        | —          |  |     |     |            |   |
|                  | SVM7829          |                 |              |                  |                |               |          | —           | ✓              |            | ◆8       | —          |  |     | ◆9  |            |   |
| SVM* 7850 Series | SVM7853          | 4<br>(127)      | ✓            | ✓                | —              | ✓             | ✓        | ✓           | —              | —          | ✓        | —          | —  | ✓   | —   | DIP-16pin  | * High-quality tone<br>* For driving of a piezo buzzer (External amplifier)   |
| SVM 7860 Series  | SVM7860          | 1<br>(127)      | ✓            | —                | —              | ✓             | ✓        | ✓           | —              | ✓          | —        | —          | ☆  |     |     | DIP-8pin   | * High-quality tone<br>* For driving of a dynamic speaker (External amplifier)  |
|                  | SVM7861          | 1<br>(127)      | —            | —                | —              | —             | —        | —           | ✓              | —          | —        | —          | ☆  |     |     | DIP-8pin   | * High-quality tone<br>* For driving of a dynamic speaker (External amplifier)  |
| SVM 7500 Series  | SVM7500          | 1<br>(63)       | ✓            | —                | —              | —             | —        | ✓           | —              | ◆10        | —        | ◆11        | ✓  | —   | —   | DIP-8pin   | ◆10: Choice of level hold or one-shot can be selected by the terminals<br>◆11: Availability of forced stop can be selected by the terminals   |
| SVM 7560 Series  | SVM7560          | 2<br>(128)      | ✓            | —                | ✓              | —             | ✓        | ✓           | ☆              | ☆          | —        | —          | ✓  |     |     | SOP3A-8pin |   |
| SVM 7100 Series  | SVM7100          | 16<br>(495)     | ✓            | ✓                | —              | —             | —        | ✓           | ✓              | ◆12        | —        | —          | ✓  | —   | —   | SSOP-20pin | ◆12: Selectable by the terminal   |

☆ Mask option.

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