TEA3718
Stepper motor driver

Features
■ Half-step and full-step mode
■ Bipolar drive of stepper motor for maximum motor performance
■ Built-in protection diodes
■ Wide range of current control 5 to 1500 mA
■ Wide voltage range 10 to 50 V
■ Designed for unstabilized motor supply voltage
■ Current levels can be selected insteps or varied continuously
■ Thermal overload protection
■ Alarm output or pre-alarm output

Applications
The TEA3718 is a bipolar monolithic integrated circuit intended to control and drive the current in one winding of a bipolar stepper motor.

Description
The circuits consist of an LS-TTL compatible logic input, a current sensor, a monostable and an output stage with built-in protection diodes. Two TEA3718 ICs and a few external components form a complete control and drive unit for LS-TTL or microprocessor-controlled stepper motor systems.

Figure 1. Block diagram

Table 1. Device summary

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<th>Order code</th>
<th>Package</th>
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<tr>
<td>E-TEA3718SDP</td>
<td>Power DIP</td>
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<td>E-TEA3718DP</td>
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<td>E-TEA3718SFP</td>
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TM: Multiwatt is a trademark of STMicroelectronics

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