SGS-THOMSON MICROELECTRONICS

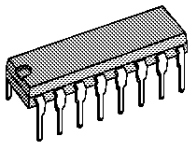
TEA3718
TEA3718S

STEPPER MOTOR DRIVER

ADVANCE DATA

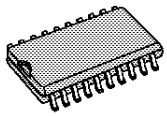
- HALF-STEP AND FULL-STEP MODE
- BIPOLAR DRIVE OF STEPPER MOTOR FOR MAXIMUM MOTOR PERFORMANCE
- BUILT-IN PROTECTION DIODES
- WIDE RANGE OF CURRENT CONTROL 5 TO 1500 mA
- WIDE VOLTAGE RANGE 10 TO 50 V
- DESIGNED FOR UNSTABILIZED MOTOR SUPPLY VOLTAGE
- CURRENT LEVELS CAN BE SELECTED IN STEPS OR VARIED CONTINUOUSLY
- THERMAL OVERLOAD PROTECTION
- ALARM OUTPUT OR PRE-ALARM OUTPUT (see internal table)

Powerdip
12 + 2 + 2



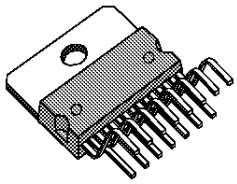
ORDERING NUMBERS :
TEA3718SDP
TEA3718DP

SO-20



ORDERING NUMBER :
TEA3718SFP

MULTIWATT-15



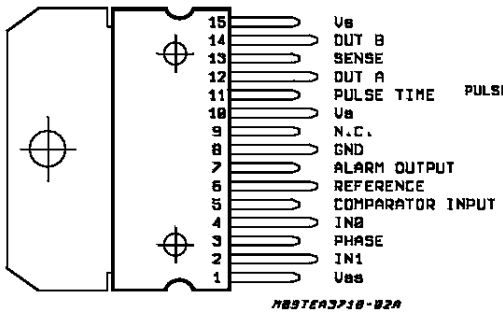
ORDERING NUMBER : TEA3718SP

DESCRIPTION

The TEA3718 and TEA3718S are bipolar monolithic integrated circuits intended to control and drive the current in one winding of a bipolar stepper motor. 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 or TEA3718S and a few external components form a complete control and drive unit for LS-TTL or microprocessor-controlled stepper motor systems.

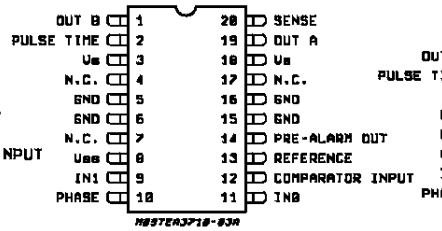
PIN CONNECTIONS (top views)

TEA3718SP
(Multiwatt-15)



Note: HEATSINK SURFACE CONNECTED TO PIN 8

TEA3718SFP
(SO-20)



TEA3718DP
TEA3718SDP
(Powerdip 12+2+2)