

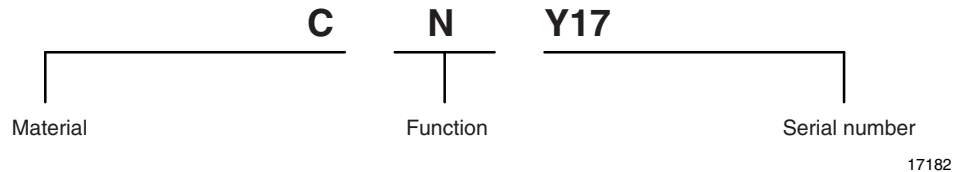


Conventions used in Presenting Technical Data

NOMENCLATURE FOR SEMICONDUCTOR DEVICES ACCORDING TO PRO ELECTRON

The type number of semiconductor devices consists of two letters followed by a serial number.

For example:



The **first letter** indicates the material used for the active part of the device.

- A GERMANIUM
(Materials with a band gap 0.6 to 1.0 eV) ⁽¹⁾
- B SILICON⁽²⁾
(Materials with a band gap 1.0 to 1.3 eV) ⁽¹⁾
- C GALLIUM-ARSENIDE ⁽²⁾
(Materials with a band gap > 1.3 eV) ⁽¹⁾
- R COMPOUND MATERIALS
(For instance cadmium-sulfide)

The **second letter** indicates the circuit function:

- A DIODE: detection, switching, mixer
- B DIODE: variable capacitance
- C TRANSISTOR: low power, audio frequency
- D TRANSISTOR: power, audio frequency
- E DIODE: tunnel
- F TRANSISTOR: low power, high frequency
- G DIODE: oscillator, miscellaneous
- H DIODE: magnetic sensitive
- K HALL EFFECT DEVICE: in an open magnetic circuit
- L TRANSISTOR: power, high frequency
- M HALL EFFECT DEVICE: in a closed magnetic circuit
- N PHOTO COUPLER⁽²⁾

- I DIODE: radiation sensitive ⁽²⁾
- Q DIODE: radiation generating
- R THYRISTOR: low power
- S TRANSISTOR: low power, switching
- T THYRISTOR: power
- U TRANSISTOR: power, switching
- X DIODE: multiplier, e.g. varactor, step recovery
- Y DIODE: rectifying, booster
- Z DIODE: voltage reference or voltage regulator, transient suppressor diode

The **serial number** consists of:

- Three figures, running from 100 to 999, for devices primarily intended for consumer equipment
- One letter (Z, Y, X, etc.) and two figures, running from 10 to 99, for devices primarily intended for professional equipment

A version letter can be used to indicate a deviation of a single characteristic, either electrically or mechanically.

The letter never has a fixed meaning, the only exception being the letter R, indicating reversed voltage, i.e. collector to case.

Notes

- ⁽¹⁾ The materials mentioned are examples
- ⁽²⁾ Used for optoelectronic products

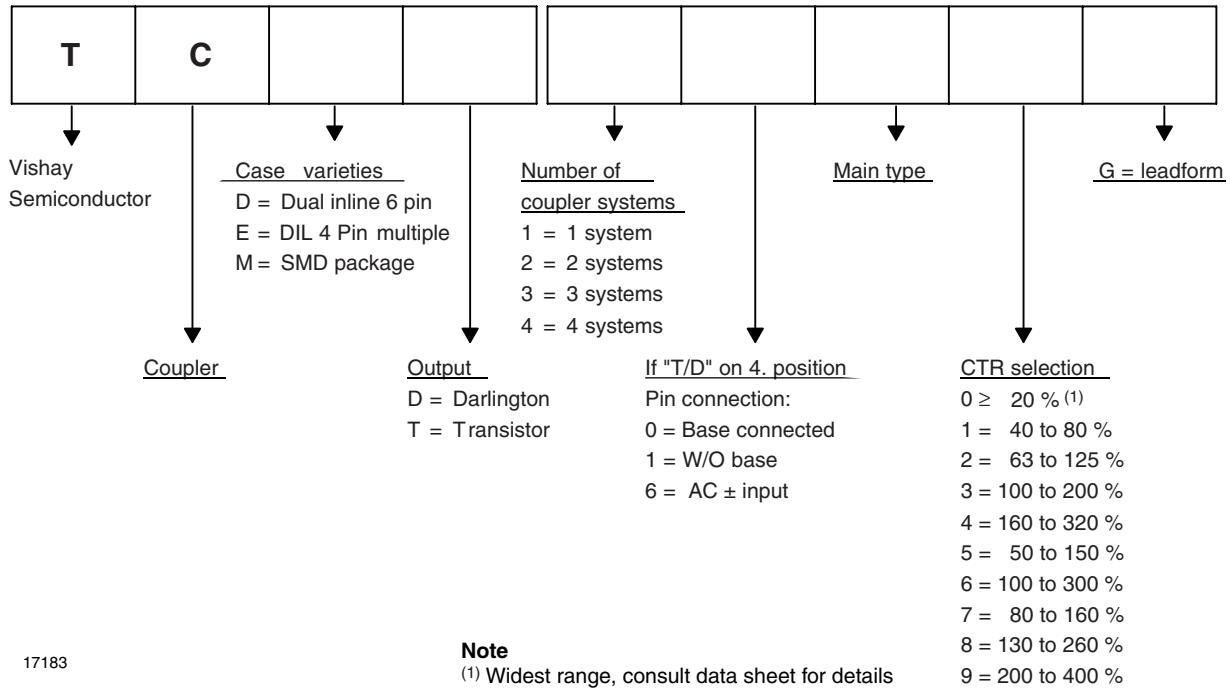
Conventions used in Presenting Technical Data



Vishay Semiconductors Conventions used in Presenting Technical Data

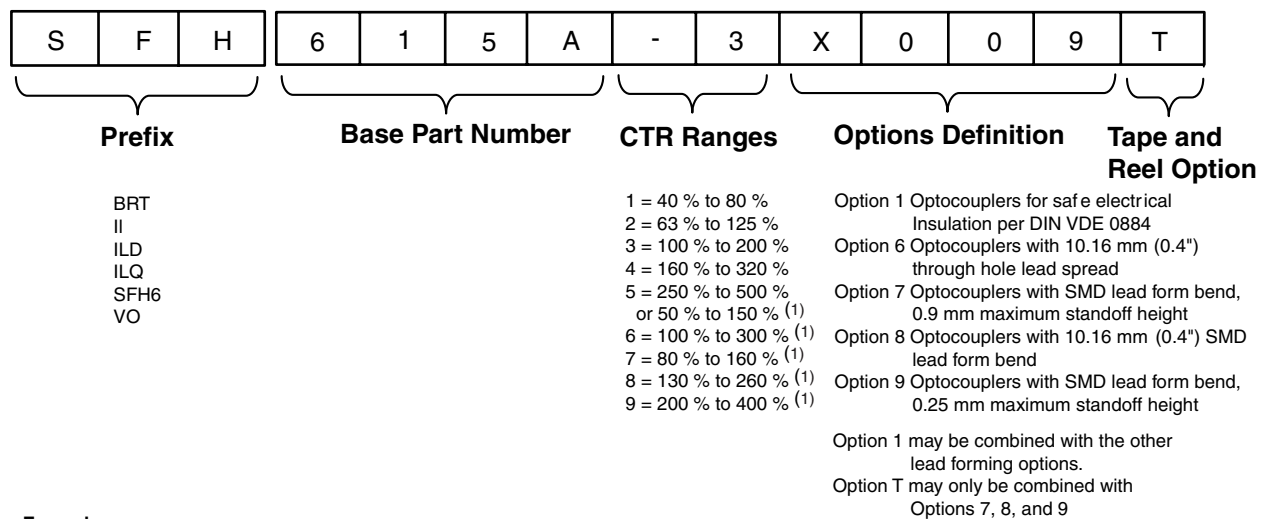
TYPE DESIGNATION CODE FOR OPTOCOUPLERS

Optocouplers



17183

GENERAL OPTOCOUPLER NOMENCLATURE FOR BRT, IL, AND SFH SERIES



Examples:
 CNY17F-2X017T
 4N35-X016
 SFH615-3X001
 VO615A-9X007T

Note
(1) Used on selected products, consult data sheet for details

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