

## IR Receiver Modules for Remote Control Systems

### AVAILABLE FOR:

- Cast packages (TSOP312..., TSOP313..., TSOP314..)
- Minicast packages (TSOP38..., TSOP39...)
- Molded packages (TSOP32..., TSOP34...)
- Standard SMD packages (TSOP35...)
- Heimdall packages (TSOP75...)
- Bugeye packages (TSOP85...)

### FEATURES

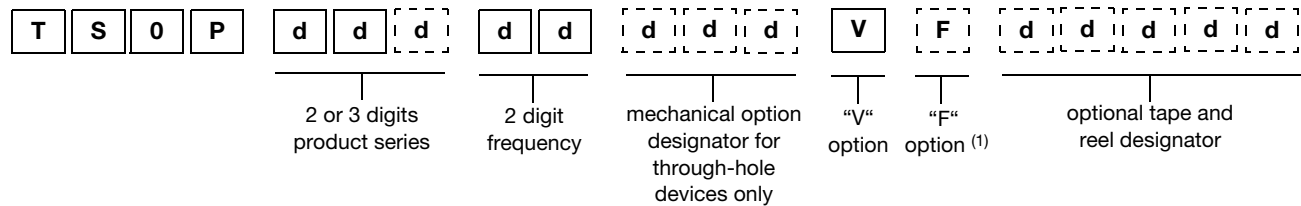
- Low supply voltage: 2 V to 5.5 V
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

### DESCRIPTION

The “V” series are special IR receivers capable of operating at very low voltages. The power supply operating range is 2 V to 5.5 V over a temperature range of + 5 °C to + 85 °C.



### ORDERING INFORMATION



#### Note

d = “digit”, please consult the list of available series to create a valid part number.

(1) As second option possible; see F option datasheet.

- Example:**
- TSOP34838SS1V - V version, molded package
  - TSOP38240SS1V - V version, minicast package
  - TSOP38240SS1VBS12 - V version, minicast package, tape and reel
  - TSOP31238SS1V - V version, cast package
  - TSOP31238XG1V - V version, cast package, with holder
  - TSOP35240VTT - V version, standard SMD package
  - TSOP75240VTR - V version, Heimdall package
  - TSOP32338SS1VF - V and F version molded package
  - TSOP35338VFTT - V and F version SMD package

ELECTRICAL AND OPTICAL CHARACTERISTICS						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply voltage	- 25 °C to +85 °C	V <sub>S</sub>	2.5		5.5	V
	+ 5 °C to +85 °C	V <sub>S</sub>	2		5.5	V

\*\* Please see document “Vishay Material Category Policy”: [www.vishay.com/doc?99902](http://www.vishay.com/doc?99902)

**TYPICAL CHARACTERISTICS**

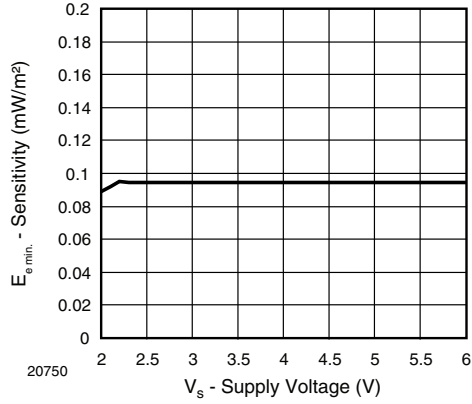


Fig. 1 - Sensitivity vs. Supply Voltage

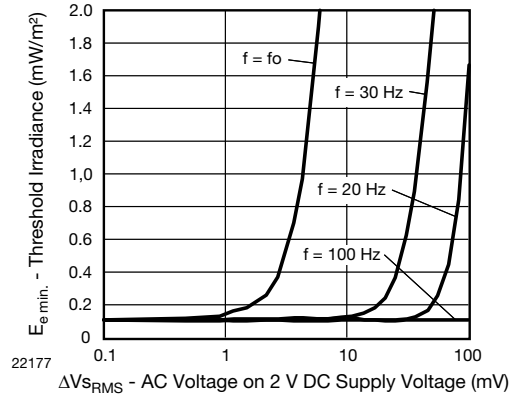


Fig. 2 - Threshold Irradiance vs. AC Voltage on 2 V DC Supply Voltage