

SANYO**STK5372H**

Thick Film Hybrid IC

Voltage Regulator for VTR

TENTATIVE**Case Outline : 8 pins (See attached case outline drawing.)****Function : Series regulator****Use : Voltage regulator for VTR****Features : On-chip 3 outputs, cutoff function****Absolute Maximum Ratings at Ta = 25°C**

		Vo 1	Vo 2	Vo 3	unit
Storage Temperature	Tstg	-30 to +105	-30 to +105	-30 to +105	°C
Operating Case Temperature	Tc max	105	105	105	°C
Maximum DC Input Voltage	Vin (DC) max	30	30	20	V
Maximum Output Current*1	Io max	Average Peak	0.8 1.0	0.8 1.5	1.0 2.0
Junction Temperature	Tj max	150	150	150	°C
Thermal Resistance	θj-c	7.0	7.0	7.0	°C/W

Electrical Characteristics at Ta = 25°C

	Condition	Vo 1	Vo 2	Vo 3	unit
Output Voltage Setting*2	①	12.1±0.1	12.0±0.2	5.3±0.1	V
Ripple Voltage	⑥	5	5	5	mVpp max
Output Cutoff Residual Voltage*3	①	12.1±0.13	0.1	0.1	V max
Temperature Coefficient	①	0.02	0.02	0.025	%/°C max
Line Regulation	②	10	10	2	mV/V max
	③	2	2	2	mV/V max
Load Regulation	④	50	300	50	mV/A max
Minimum Input-Output Voltage Difference	⑤	1.2	-	1.2	V max

Condition ① : VB=45V, Vin (DC) 1=16V, Vin (DC) 2=9V

Io1=0.2A, Io2=0.5A, Io3=0.5A

Condition ② : VB=45V±5V, Vin (DC) 1=16V, Vin (DC) 2=9V

Io1=0.2A, Io2=0.5A, Io3=0.5A

Condition ③ : VB=45V, Vin (DC) 1=13.5V to 18.5V, Vin (DC) 2=6.7 to 11.3V

Io1=0.2A, Io2=0.5A, Io3=0.5A

Condition ④ : VB=45V, Vin (DC) 1=16V, Vin (DC) 2=9V

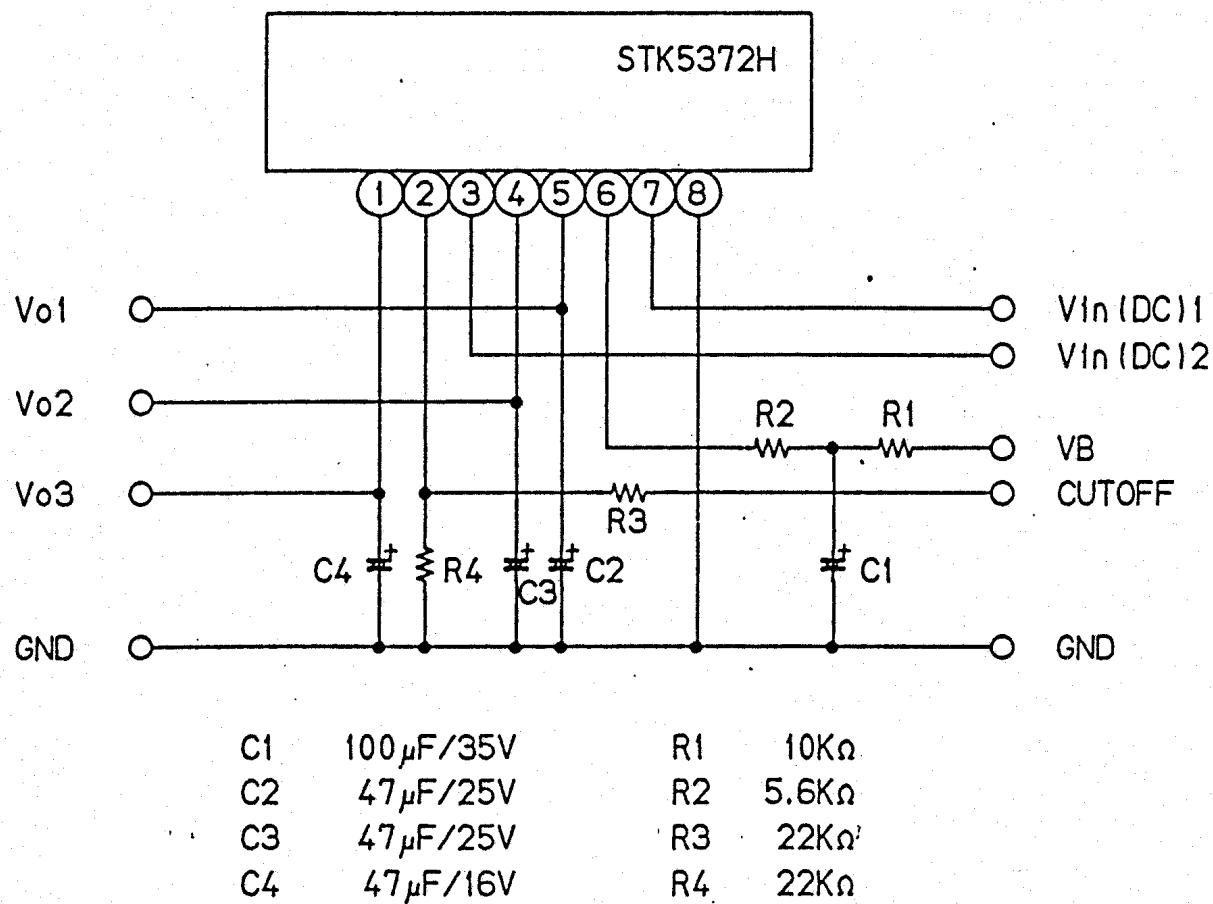
Io1=0A to 0.5A, Io2=0A to 0.6A, Io3=0.1A to 1.0A

Condition ⑤ : VB=45V, Io1=Io3=0.5A, Io2=0, IB1=2mA**Condition ⑥ : VB=45V, Vin (DC) 1=16V, Vin (DC) 2=9V, Input ripple voltage=1.5Vp-p**

Io1=0.2A, Io2=Io3=0.5A

1. Peak current : 0.2sec. max**2. Measurement must be made within 1 to 2sec. after input switch ON in the STK5372H Test Circuit.*****3. When the CUTOFF pin in the STK5372H Test Circuit is at High level (3V to 15V), Vo2, Vo3 are in ON state.****When the CUTOFF pin in the STK5372H Test Circuit is at Low level (0.6V or less), Vo2, Vo3 are in OFF state.**

STK5372H Test Circuit



Case Outline
(unit : mm)

