No.1640



STK7406

Thick Film Hybrid IC

OFFLINE SWITCHING REGULATOR

Features

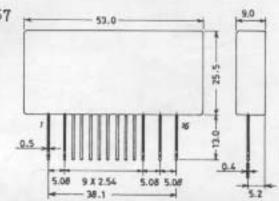
- . Switching regulator power IC fabricated using Sanyo's original IMST (Insulated Metal Substrate Technology)
- . Single-package, selectorless regulated power supply applicable to a wide range of line voltages from 85VAC to 264VAC
- Sanyo's original circuit configuration requiring neither driver transformer nor bulky choke coil, providing high efficiency, small size, and light weight.
- . The STK7400 series are available for output power from 5W to 100W. They have 16 pins and are pin-compatible.
- . Designed to meet the requirements of safety standards and radio interference control standards now in force in various countries. For conducted interference through input, it is easy to make low-noise design because the IC metal substrate serves as shielding.
- . Easy to constitute multi-output
- . Built-in overcurrent protector
- . Remote ON/OFF control pin connectable

Functions

Pulse width modulator, oscillator, control, error amp

Maximum Pin Voltage	V16max	Pin	16	, TR	5 bas	e bia	as -6	V	800	Vpk
	V11max	Pin	11						-12	V
	V10max	Pin	10						12	V
	V1max	Pin	1,	TR1	base	bias	-17		400	٧
Maximum Pin Current	I16max	Pin	16						3.0	Apk
	I10max	Pin	10						1.0	Apk
	I1max	Pin	1						100	mA
Operating Case Temperature	Temax								85	°C
Storage Temperature	Tstg							-30 to	57.575.4	°C
commended Operating Condit	ions at	ra=25	oc.							unit
Recommended Supply Voltage			-						280	V

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Operating Characteristics at Ta=2500	;		min	typ	max	unit
TR5 Current Amplification Factor	hFE5	V _{CE} =5V,I _c =3A	8			
TR1 Current Amplification Factor	hFE1	VCE=10V,Ic=10mA	60			
ZD Zener Voltage	Vz1	Iz=5mA		8.0		V
ZD Zener Voltage	Vz2	Iz=5mA		7.5		V
Oscillation Frequency	fosc			33k		Hz

Equivalent Circuit and Functional Block Diagram

