



Safe restart Safe restart Max Duty cycle Safe restart Safe restart Safe restart OVP Latched to off Latched to off Safe restart Ext. OTP Latched to off Latched to off Safe restart Int. OTP Latched to off Latched to off Latched to off Features and benefits SMPS controller IC enabling low-cost applications Large input voltage range (12 V to 30 V) Integrated OverVoltage Protection (OVP) on the VCC pin

Accurate OverVoltage Protection (OVP) via the ISENSE pin.

Fixed switching frequency with frequency jitter to reduce EMI

Low and adjustable OverCurrent Protection (OCP) trip level

Overpower protection or high/low line compensation

Frequency increase at peak power operation

Slope compensation for CCM operation

Mains undervoltage protection (brownout) External OverTemperature Protection (OTP)

Parametric search all AC-DC controllers

Internal overpower time-out

low output power levels

IC overtemperature protection

Integrated soft-start

SeriesTEA173x

General product disclaimer

Quality and reliability disclaimer

Very low supply current during start-up and restart (10 µA typical)

Low supply current during normal operation (0.58 mA typical without load)

Frequency reduction with fixed minimum peak current to maintain high efficiency at

Applications All applications that require an efficient and cost-effective power supply solution up to 75 W

19.3 peak power

Conditions

high power

VCC < V_{startup}

Min

5

-40

lyp/Nom

21.5

80

65

10

Standard

6 DRIVER

5 ISENSE

Type

Data sheet

Reflow soldering

Wave soldering

Outline drawing

Packing

Top Marking

Reflow soldering

★(

1

★(

1(

1

1

★(

Format

pdf

pdf

pdf

pdf

pdf

pdf

pdf

Date

2015-03-31

2010-07-13

2009-10-08

2009-10-08

2012-11-30

2013-06-03

2013-09-30

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Marking

Active

TEA1731LTS

Max

23.8

15

150

TEA1732TS/1H

(9353 035 44125)

Graphic symbol

Unit

kHz

kHz

μА

°C

٧

Low voltage start-up flyback controllers suitable for Fixed Frequency/CCM

All information on this product information page is subject to the subsequent disclaimers:

T_{j} junction temperature Vec supply voltage

Parametrics of this product

Parameter

start-up voltage

oscillator frequency

oscillator frequency

start-up supply current

Symbol

 V_{startup}

fosc

fosc

CC(startup)

Vcc	supply voltage			continuous	-1	0.4		30	٧
Vcc	supply voltage			t<100 ms				35	٧
V _{th(UVLO)}	undervoltage lo	ockout threshold vo	Itage		1	11.2	12.5	13.8	٧
Similar products Series TEA173x Parametric search all AC-DC controllers Parametrics series Package									
Type number	Package	Outline version	Reflow-AVave soldering	Packing	Product status	Mark	ına :	Orderable part nu Ordering code (1	

4 Reel 7"

Q3/T4,

Simplified outline

VCC 1

Reverse

Sot457_fr

4 sot457_fw

⊕ sot457_po

TEA1732TS/1

Pinning information

Symbol

GND

PROTECT

CTRL

TSOP6 (SOT457)

Description

supply voltage

control input

protection and mains detect input

\$

Title

125

GreenChip SMPS control IC

MAR_SOT457 Topmark

Reflow Soldering Profile

24-07-2015

24-07-2015

20-07-2015

20-07-2015

14-07-2015

Footprint for reflow soldering SOT457

Footprint for wave soldering SOT457

plastic surface-mounted package (TSOP6); 6 leads

Tape reel SMD; reversed product orientation 12NC ending

ground

VCC 1

2

3

4

Pin

5	ISENSE	current sense and acci	urate OVP input	PROTECT 3	4 CTRL				
6	DRIVER	gate driver output		aaa-0	02332				
Quality, reliability & chemical content									
Туре п	umber	Orderable part number	Chemical content	RoHS / RHF	Leadfree conversion date	MSL	MSL LF		
	umber 32TS/1	Orderable part number TEA1732TS/1H	Chemical content TEA1732TS/1	ROHS / RHF	Leadfree conversion date Always Pb-free	MSL 1	MSL LF		
TEA17		TEA1732TS/1H				MSL 1	MSL LF		
TEA17 Quality	32TS/1	TEA1732TS/1H				MSL 1	MSL L		

⊕ SOT457_125 MAR_SOT457

Reflow_Soldering_Profile

Download all documentation (zip)

File name

⊕ TEA1732TS

⊕ sot457_fr

Sot457_fw

⊕ sot457_po

ype number	Ordering code (12NC)	Orderable part number	Region	Distributor	ln stock	Order quantity	Inventory date	Buy online	Samples
EA1732TS/1	9353 035 44125	TEA1732TS/1H			2				Order samp
•	normally take 2-4 days re a direct account with	for delivery. NXP our network of glob	al and regior	nal distributors i	s available :	and equipped to	support you with	n NXP sampl	es. As a NX

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following options:

What is the Vstartup voltage of the TEA1733T?

14-07-2015	What is the Vstartup voltage of the	TEA1733T?		⇔ >		
24-10-2014						
24-10-2014						
04-09-2014	Difference between SR-IC's TEA1	792ATS and TEA1892AT	8??	₽ >		
04-09-2014	Difference between SR-IC's TEA1	792ATS and TEA1892AT	8??	₽ >		
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