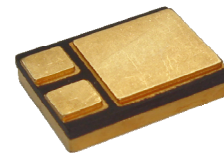
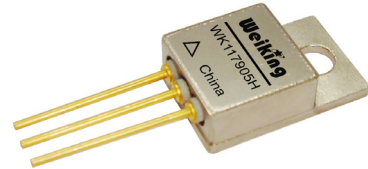
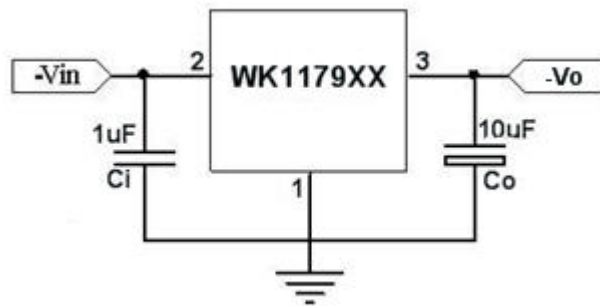


FEATURES:

- Available outputs with $-5.0V_{DC}$, $-12.0V_{DC}$, $-15.0V_{DC}$
- Internal thermal overload protection
- Short circuit protection
- Hermetically sealed package in TO-257 metal case
or in ceramic surface mounted case



TYPICAL APPLICATION DIAGRAMS:



AMBIENT TEMPERATURE:

Operating temperature range (Tc) : $-55^{\circ}C \sim +125^{\circ}C$ (H), $-40^{\circ}C \sim +85^{\circ}C$ (E / I)
Storage temperature range (Tstg) : $-65^{\circ}C \sim 150^{\circ}C$

MAIN ELECTRICAL SPECIFICATIONS:

Output Current: 1A
Output Voltage: $-5V_{DC}$, $-12V_{DC}$, $-15V_{DC}$
Maximum Input Voltage: $-30V_{DC}$

THERMAL RESISTANCE (junction to case):

Symbol	S package	T/TD package	Unit
Rthj-c	3.5	5	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS (H CLASS):

Product Model		WK117905	WK117912	WK117915	
Output Voltage		-5V	-12V	-15V	
Parameters	Test Conditions ¹⁾ ($P_D \leq 7.5W$)	MIN TYP MAX	MIN TYP MAX	MIN TYP MAX	Unit
Input range	-55°C~+125°C	-7.5 -10 -25	-14.5 -19 -30	-17.5 -23 -30	V
Output voltage	-55°C~+125°C	-4.65 -5 -5.35 ($V_i = -10V$)	-11.5 -12 -12.5 ($V_i = -19V$)	-14.4 -15 -15.6 ($V_i = -23V$)	V
Line Regulation	-	- - 100 ($V_i = -7.5 \sim -25V$)	- - 240 ($V_i = -14.5 \sim -30V$)	- - 300 ($V_i = -17.5 \sim -30V$)	mV
	-55°C~+125°C	- - 100 ($V_i = -7.5 \sim -18V$)	- - 240 ($V_i = -14.5 \sim -25V$)	- - 300 ($V_i = -17.5 \sim -25V$)	
Load Regulation	$I_o = 5mA \sim 1A$	- - 100 ($V_i = -10V$)	- - 240 ($V_i = -19V$)	- - 300 ($V_i = -23V$)	mV
	$I_o = 10mA - 0.5A$ -55°C~+125°C	- - 100 ($V_i = -10V$)	- - 240 ($V_i = -19V$)	- - 300 ($V_i = -23V$)	
Quiescent current	$I_o = 0A$	- - 3	- - 3	- - 3	mA
Supply Voltage rejection ²⁾	-	54 - - ($\Delta V = 10V$ $f = 120Hz$)	54 - - ($\Delta V = 10V$ $f = 120Hz$)	54 - - ($\Delta V = 10V$ $f = 120Hz$)	dB
Dropout Voltage	$I_o = 1A$ -55°C~+125°C	- - 2.5	- - 2.5	- - 2.5	V
Short circuit current ²⁾		- 2.1 -	- 1.5 -	- 1.3 -	A

Notes:

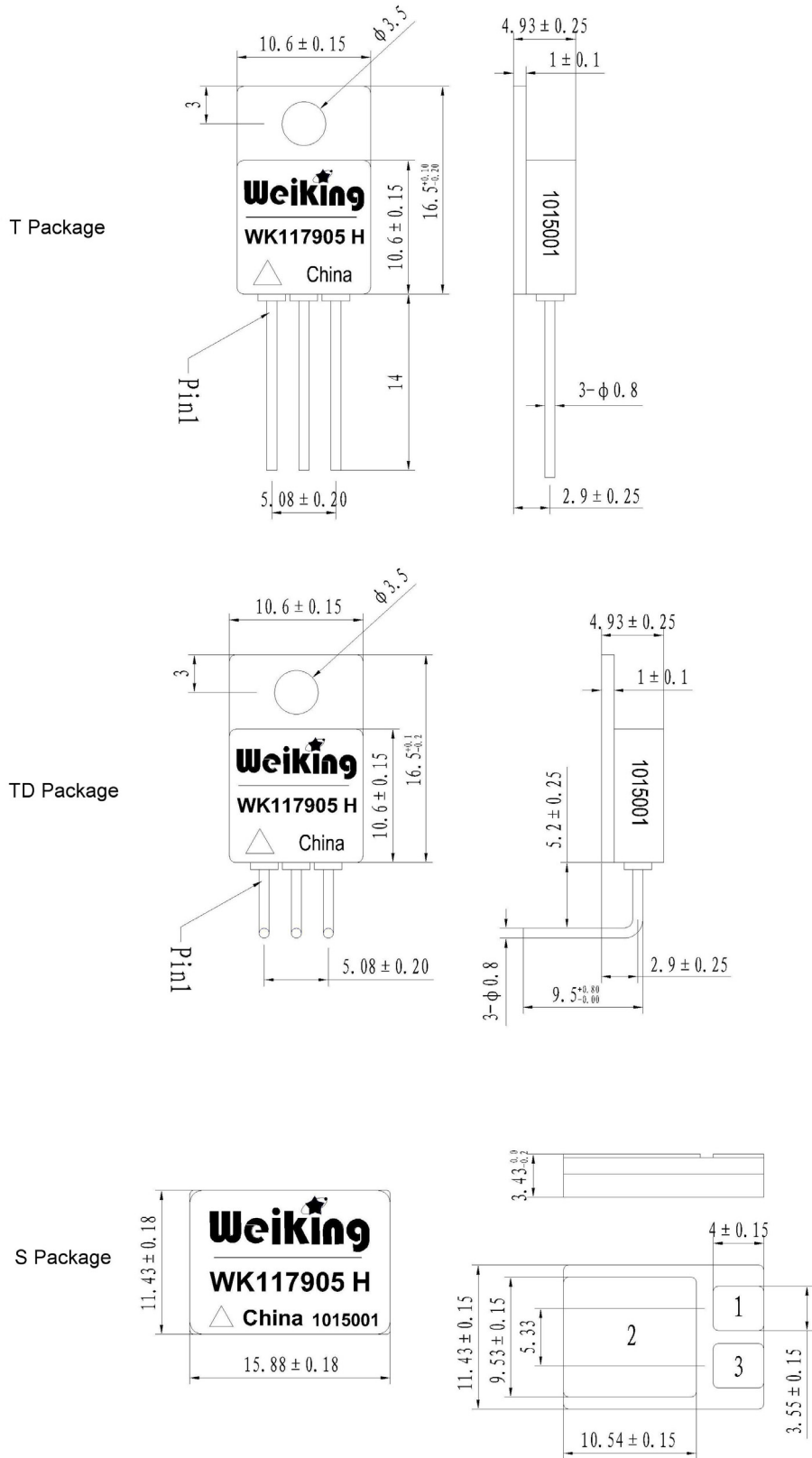
- 1) $T_c = 25^\circ C$, $I_o = 0.5A$ unless otherwise specified.
- 2) Guaranteed by design but not tested.
- 3) Class E and I product' s parameters have the same values as class H over full operating temperature range.
- 4) When the internal power dissipation exceeds over 7.5 watts, a heatsink, as large as possible ,should be considered . in any case of application , please assure a max, case temperature of +125°C.
- 5) Other outputs as -6V、-8V、-18V、-20V、-24V are also available , for more information please contact us at 0086-29-85269988 or use our convenient service email at sales@weiking.com.

ENVIRONMENTAL SCREENING TEST

Sub group	Test	MIL-Std-883 Standard and methods	Test conditions	H	E	I	
1	Internal visual	2017	—	100%	100%	100%	
2	Seal	1014	Fine leak: A1 Gross leak: C1	100%	100%	100%	
3	Temperature cycling	1010	-65℃~+150℃ ten times	100%	—	—	
		—	-55℃~+125℃ ten times	—	100%	—	
4	Constant acceleration	2001	Y1 orientation, 1min 3000g	100%	100%	—	
5	Interim Electrical test	—	25℃	100%	100%	100%	
6	Burn-in	1015	125℃, 160h	100%	—	—	
			85℃, 96h	—	100%	—	
			85℃, 48h	—	—	100%	
7	Final electrical test	—	Normal temperature	25℃	100%	100%	100%
			Maximum rated	125℃	100%	—	—
				85℃	—	100%	—
				Minimum rated	-55℃	100%	—
			-40℃	—	100%	—	
8	Seal	1014	Fine seal: A1 Gross seal: C1	100%	100%	—	
9	External visual	2009	—	100%	100%	100%	

MECHANICAL SPECIFICATIONS AND PIN-OUT INFORMATION

Mechanical specifications in mm (eg.WK117905H)

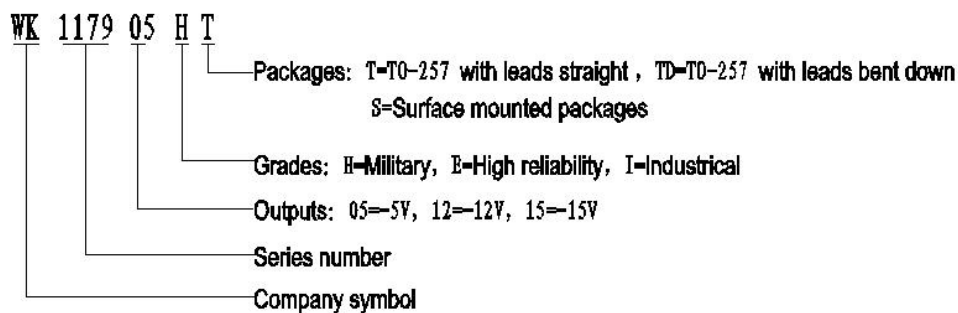


Pin-Out Information:

WK1179XX SERIES		
Pin number	Symbol	Definition
1	GND	Ground
2	-Vin	Negative Input
3	-Vo	Negative Output

- Note:**
1. when assembling, it's suggested to install fixed screws prior to soldering module pins, which's prone to enhance pins overstressed and thus cause the glass insulators cracked and module leaked.
 2. T and TD package' cases are also ground.

Ordering Information:



Mark specification:

Serial Number: 1015 001, for example, indicates the product manufactured in the 15th week of 2010 and the sequence number is 001.