

#### 3 TERMINAL LOW DROP OUTPUT VOLTAGE REGULATOR

The KIA78DXXF Series are fixed positive output low drop out type, 3-pin voltage regulators with positive output.

These regulators are used to provide a stabilized output voltage from a fluctuating DC input voltage.

These are 12 fixed output voltage, as follows ; 2.5V, 3.0V, 3.3V, 3.5V, 3.7V, 5V, 6V, 8V, 9V, 10V, 12V, and 15V.

The maximum current capacity is 1A for each of the above voltage.

#### FEATURES

- Built in over voltage protection circuit, over current protection circuit and thermal shut down circuit.
- Compatible with the KIA78DXXF Series.
- Richly diverse Lineup.
- Low minimum I/O voltage differential.

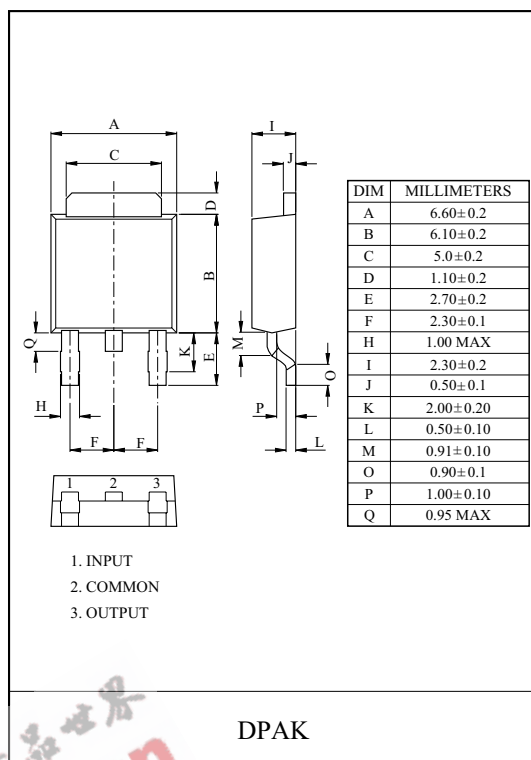
#### LINE UP

ITEM	OUTPUT VOLTAGE (Typ.)	UNIT
* KIA78D25F	2.5	V
* KIA78D30F	3.0	
KIA78D33F	3.3	
* KIA78D35F	3.5	
* KIA78D37F	3.7	
KIA78D05F	5	
KIA78D06F	6	
KIA78D08F	8	
KIA78D09F	9	
KIA78D10F	10	
KIA78D12F	12	
KIA78D15F	15	

Note) \* : Under development.

#### MAXIMUM RATINGS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	Remark
Input Voltage	V <sub>IN</sub>	35	V	-
Output Current	I <sub>O</sub>	1	A	-
Power Dissipation	P <sub>d</sub>	1.3	W	No heatsink
Junction Temperature	T <sub>j</sub>	125	°C	-
Operating Temperature	T <sub>opr</sub>	-40 ~ 85	°C	-
Storage Temperature	T <sub>stg</sub>	-50 ~ 150	°C	-
Soldering Temperature (10sec)	T <sub>sol</sub>	260	°C	-





# KIA78D25F~78D15F

Fig. 1 Standard Test Circuit

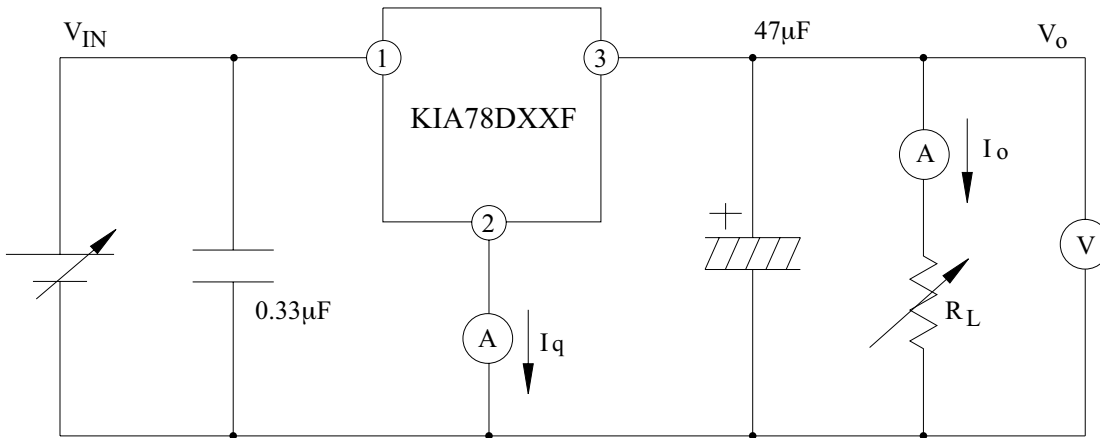


Fig. 1-2 Ripple Rejection Test Circuit

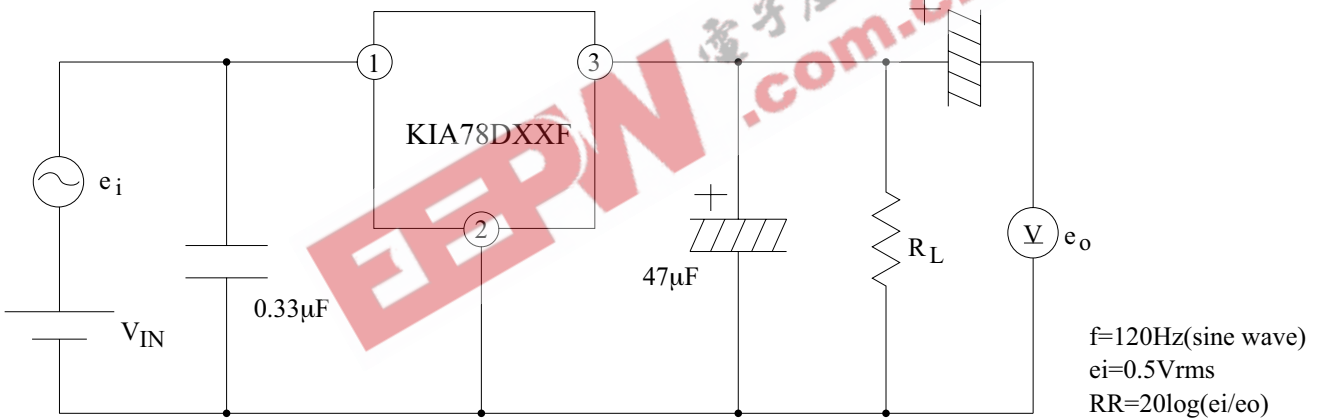
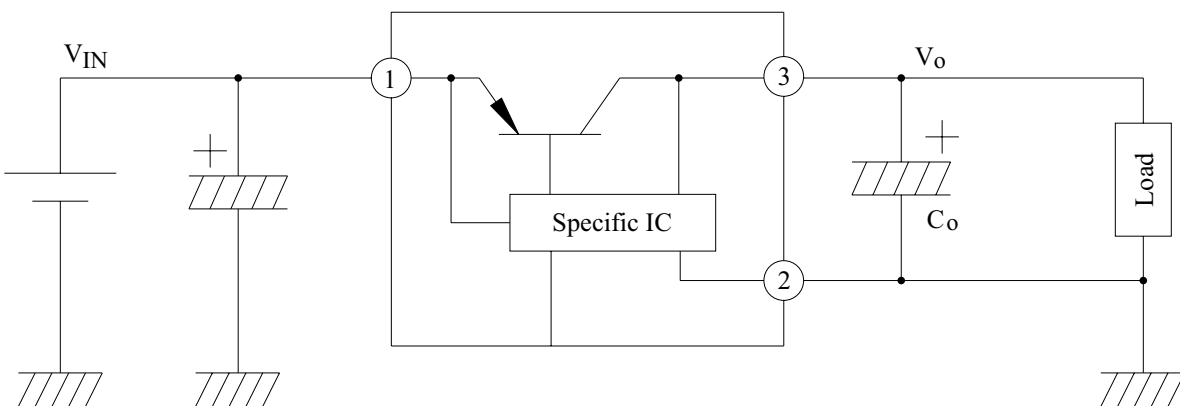


Fig. 2 Application Circuit for Standard



# KIA78D25F~78D15F

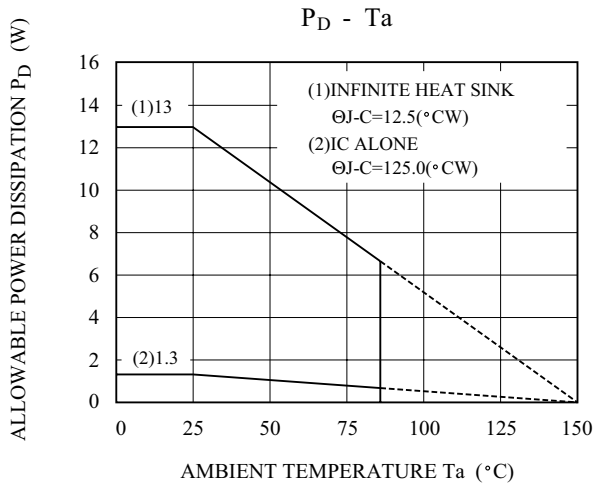


Fig 3. Power Dissipation Characteristics.

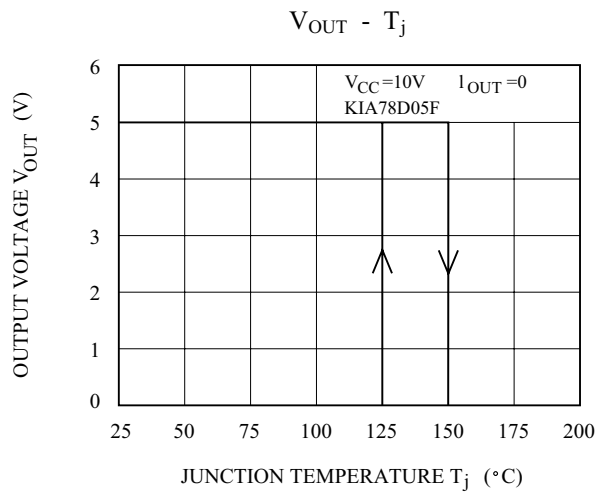


Fig 4. Thermal Cutoff Characteristics.

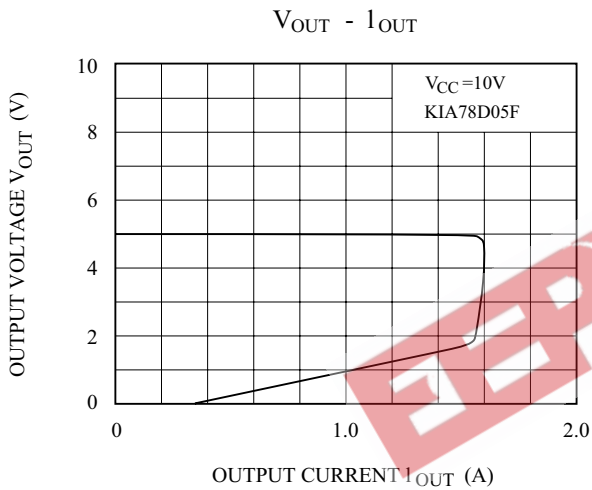


Fig 5. Current limit Characteristics.

