



Figure 3-2 .The transfer characteristic and the output characteristic of the amorphous TFT with SiH4/H2 ration is 1/10.



Figure 3-2 .The transfer characteristic and the output characteristic of the amorphous TFT with SiH4/H2 ration is 1/49.



Figure 3-5 I-V measurement for the SiON film



Figure 3-7 I-V measurement for TiO2 film



Figure 3-9 I-V measurement for Al2O3 film

~ Device Structure ~





glass substrate



silicon substrate



plastic substrate

Figure 3-11 TFT device was fabricated on the different kinds of substrate







fabricated on the silicon substrate (W/L=300 μ m/20 μ m)



Figure 3-13 I-V characteristics of TFT devices with SiON gate dielectric on the SiCN coated plastic substrate.

(W/L=50 μ m/50 μ m)



Figure 3-14 I-V characteristics of TFT devices with SiON gate dielectric on the SiCN coated plastic substrate.

(W/L=50 μ m/10 μ m)



Figure 3-15 I-V characteristics of TFT devices with SiON gate dielectric on the SiCN/SiN coated plastic substrate.

(W/L=50 µ m/50 µ m)



Figure 3-16 I-V characteristics of TFT devices with SiON gate dielectric on the SiCN/SiN coated plastic substrate.

(W/L=50 μ m/10 μ m)



Figure 3-17 I-V characteristics of TFT devices with SiON gate dielectric fabricated on the TiO2 (800A) hard coating on the plastic substrate

(W/L=50 µ m/50 µ m)



Figure 3-18 I-V characteristics of TFT devices with SiON gate dielectric fabricated on the TiO2 (800A) hard coating on the plastic substrate

(W/L=50 µ m/10 µ m)



Figure 3-19 picture of the TFT device with the TiO2 and thin SiON being the gate dielectric

