

Investigation of DX Centers in Modulation-Doped Field-Effect Transistor-Type $\text{Al}_{0.3}\text{Ga}_{0.7}\text{As}/\text{GaAs}$ Heterostructures Using a Fourier-Transform Deep Level Transient Spectroscopy System

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$\text{Al}_{0.3}\text{Ga}_{0.7}\text{As}/\text{Si}/\text{GaAs}$ modulation-doped field-effect transistor-type heterostructures were grown using two different growth temperatures (500 and 620°C) and three doping modes (δ -doping, pulse-doping, and uniform-doping). Deep level transient spectroscopy (DLTS) measurements were performed on these structures using a new Fourier-analysis method. Up to four DLTS peaks, related to the different possible configurations of the nearest Al and Ga neighbors around each DX site, were observed. Both the growth temperature and the doping-mode are found to affect the DLTS spectra, in particular the number of observed peaks and their width. These results are interpreted in terms of the different mobilities of the Si doping atoms on the surface during growth.

Key words: AlGaAs/GaAs, deep level transient spectroscopy (DLTS), DX center, molecular beam epitaxy, modulation-doped field-effect transistor (MODFET), planar doping

INTRODUCTION

The performances of modulation-doped field-effect transistor (MODFET) devices grown in the $\text{Al}_{0.3}\text{Ga}_{0.7}\text{As}/\text{Si}/\text{GaAs}$ system with Al concentration above 22% are limited by the presence of the DX centers in the AlGaAs doped layer. This center was shown to be a metastable state of the shallow dopant.^{1,2} One of its peculiar features is the nonexponentiality of its emission transient, which was particularly noticed in the deep level transient spectroscopy (DLTS) measurements. The generally accepted model for this defect is the one proposed by Chadi and Chang,^{1,2} the so-called negative U-center model. According to recent developments by Morgan^{3,4} and Mooney et al.,^{5,6} it appears that the DX center is a state of the substitutional donor which has moved in an intermediate position between the substitutional and the interstitial one, or which has exchanged sites with an As atom. In both models, the Si atom is therefore sur-

rounded by three nearest group III atoms to which it is particularly related. In GaAs there is only one possible configuration around the DX site, and only one peak should be resolved in the DLTS signal, as confirmed by experiment.⁶ In $\text{Al}_{0.3}\text{Ga}_{0.7}\text{As}$ material, the three group III atoms around the DX site can be any combination of gallium and aluminum. The peaks into which the DLTS signal can be resolved would correspond, according to the previously mentioned models, to the four possible configurations of the three nearest aluminum and/or gallium neighbors around each DX site.

The differences in the spectrum of the DLTS signal of samples grown at two growth temperatures will be examined here. The discrepancies between the calculated distribution of DX sites and the one observed by DLTS will also be studied. Our experiments are based on a recently developed high-resolution Fourier-transform DLTS system.⁷ It can provide a very high emission rate resolution and produces spectra which are easy to interpret since they are very similar to those obtained by conventional DLTS.

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