

TABLE I

EPITAXIAL STRUCTURE OF $\text{In}_{0.52}\text{Al}_{0.48}\text{As}$ - $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ - $\text{In}_{0.52}\text{Al}_{0.48}\text{As}$ DHBTs

Layer	Material	Thickness(\AA)	Doping (cm^{-3})
Cap1	$\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$	800	2×10^{19} (n)
Cap2	$\text{In}_{0.52}\text{Al}_{0.48}\text{As}$	800	2×10^{19} (n)
Emitter	$\text{In}_{0.52}\text{Al}_{0.48}\text{As}$	500	5×10^{17} (n)
Spacer	$\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$	100	nid
Base	$\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$	450	4×10^{18} (p)
Setback	$\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$	750	1×10^{16} (n)
p-n dipole doping	$\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ - $\text{In}_{0.52}\text{Al}_{0.48}\text{As}$	2 x 100	4×10^{18} (pn)
Collector	$\text{In}_{0.52}\text{Al}_{0.48}\text{As}$	1000	1×10^{16} (n)
Collector 2	$\text{In}_{0.52}\text{Al}_{0.48}\text{As}$	500	1×10^{19} (n)
Sub-collector	$\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$	3500	1×10^{19} (n)
Buffer	$\text{In}_{0.52}\text{Al}_{0.48}\text{As}$	300	nid
Substrate	InP		Semi-insulating

nid = no intentional doping

Table 1: DHBT Epitaxial Structure

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Velavancorresponding**



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