

### 3.2.7. Diode Parameters

Diode parameters except breakdown voltages and Zener diode parameters are characterisation parameters (refer to section "Introduction").

#### NDIFF - PWELL

PASS/FAIL PARAMETERS						
Parameter	Symbol	Min	Typ	Max	Unit	Note
breakdown voltage	BVN	7	9		V	30
INFORMATION PARAMETERS						
area junction capacitance	CJN		0.94		fF/ $\mu\text{m}^2$	29
area grading coefficient	MJN		0.34		-	29
junction potential	PBN		0.69		V	29
sidewall junction capacitance	CJSWN		0.25		fF/ $\mu\text{m}$	29
sidewall grading coefficient	MJSWN		0.23		-	29
area leakage current	JSN		0.01		fA/ $\mu\text{m}^2$	31
sidewall leakage current	JSSWN		0.13		fA/ $\mu\text{m}$	31

#### PDIFF - NWELL

PASS/FAIL PARAMETERS						
breakdown voltage	BVP	-7	-9		V	30
INFORMATION PARAMETERS						
area junction capacitance	CJP		1.36		fF/ $\mu\text{m}^2$	29
area grading coefficient	MJP		0.56		-	29
junction potential	PBP		1.02		V	29
sidewall junction capacitance	CJSWP		0.32		fF/ $\mu\text{m}$	29
sidewall grading coefficient	MJSWP		0.43		-	29
area leakage current	JSP		0.09		fA/ $\mu\text{m}^2$	31
sidewall leakage current	JSSWP		0.61		fA/ $\mu\text{m}$	31