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Current \u0026

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works | forward

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*diffusion drift
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= 4.145 eV E eV

4 = 6.0165 so ?E

= 1.87 eV (c) 2?

< ka < 3? 1st

point: ?a =

2.54? 2nd point:

?a = 3? Then E

eV 5 = 9.704 E

eV 6 = 13.537 so

?E = 3.83 eV (d)

3? < ka < 4? 1st

point: ?a =

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3.44? 2nd point:
?a = 4? Then $E_7 = 17.799 \text{ eV}$ $E_8 = 24.066 \text{ eV}$ so ?E
= 6.27 eV 3.10 6
sin cos cos ? ?
? a a + a = ka
Forbidden energy
bands (a) ka = ?
? cos ka = ?1
1st point ...

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valence electron
in the outer
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increase, the
bandgap energy
would decrease
and the material
would begin to
behave less like
a semiconductor
and more like a
metal.

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