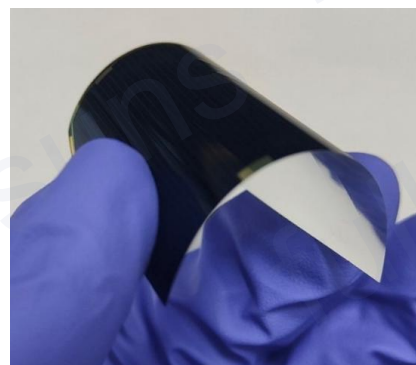
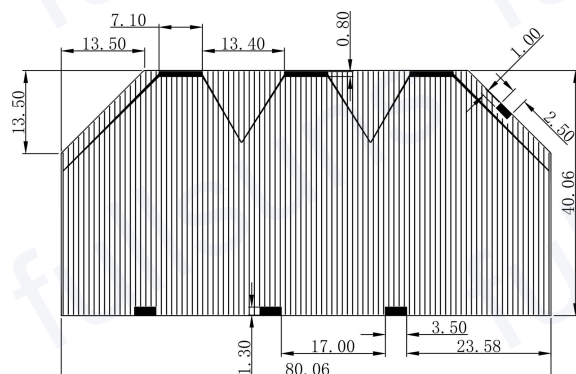


High Efficiency Space Triple Junction GaAs Solar Cell Flexible Chips

TJ30Cell - 4080FC



Design and Mechanical Data

- Upper Electrode Material: Au/Ge/Ag
- Lower Electrode Material: Au/Ge/Ag
- Electrode Bonding Compatibility: Welding or Soldering
- Typical Size: 40mm×80mm
- Thickness: 60μm±10μm
- Average Weight: 32±1.5mg/cm²
- Bending Performance: Minimum bending radius 55mm

Typical Performance Data

Fluence	[e/cm ²]	BOL	1E14	5E14	1E15
Efficiency η_{bare}	[%]	30.0	28.8	27.0	25.8
Short Circuit J_{sc}	[mA/cm ²]	17.5	17.4	16.8	16.3
Open Circuit V_{oc}	[V]	2.75	2.64	2.58	2.53
Current @ Max. Power J_{m}	[mA/cm ²]	16.6	16.4	16.0	15.5
Voltage @ Max. Power V_{m}	[V]	2.45	2.38	2.28	2.25
AM0 (1353W/m ² , T=25°C)		@fluence 1MeV [e/cm ²]			

Temperature Gradients

Short Circuit J_{sc}	[μA/cm ² /°C]	12.0
Open Circuit V_{oc}	[mV/°C]	-5.6
Current @ Max. Power J_{m}	[μA/cm ² /°C]	9.0
Voltage @ Max. Power V_{m}	[mV/°C]	-5.8

Temperature Coefficient(20°C~80°C)

Note: Dimensions can be customized to requirements.