

Integrated bypass diode for Solar cell Module

1.Features

- Schotty Barrier hight diode;
- Low thermal resistance;
- Lower forward voltage drop, low power loss;
- Isolate Package design, ideal for heat dispersion;
- High forward current capability;
- Excellent anti-humidity;
- Low profile package;
- High forward surge capability;

2.Mechanical Data

Case: QC3Q;Terminals: Copper;

High temperature soldering guaranteed;
 Heated-tool welding 260℃,10seconds

Marking: As marked on product;

3. Order Information

| Package | QC3Q | | |
|-----------|-------------------|--|--|
| PVC tube | 32pcs/ tube | | |
| Inner Box | 320pcs/ Inner box | | |
| Carton | 1600pcs/ Carton | | |

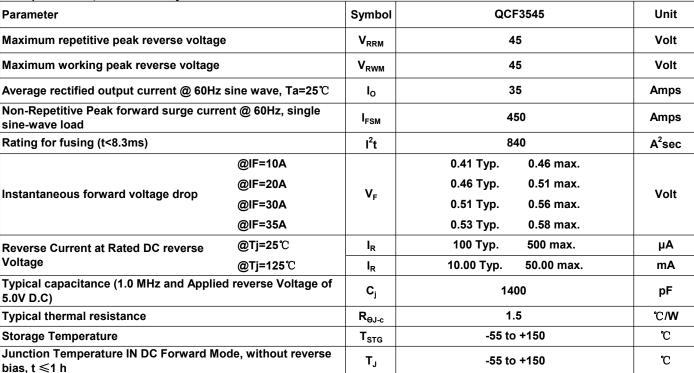
4. Typical Applications

For the protection of solar cell bypass box.
Using DC forward current without reverse bias.

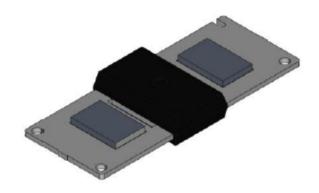
Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.







QC3Q

Case: QC3Q

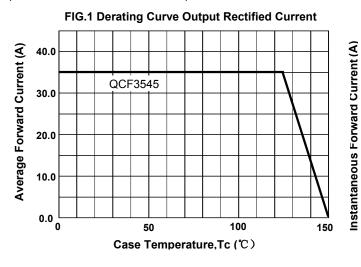
Dimensions in milimeters

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5.Ratings and Characteristics Curves

(TA = 25[°]C unless otherwise noted)



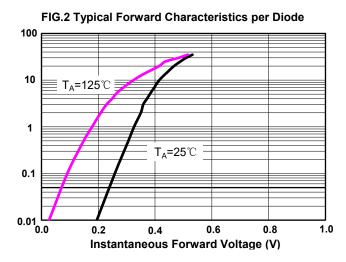


FIG.3 Maximum Non-Repetitive Peak Forward Surge Current per Diode

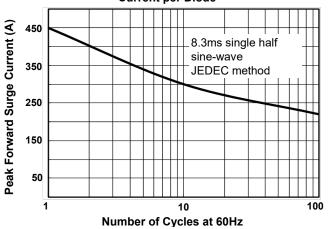


FIG.4 Typical Reverse Characteristics per Diode

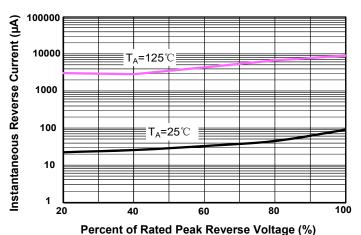
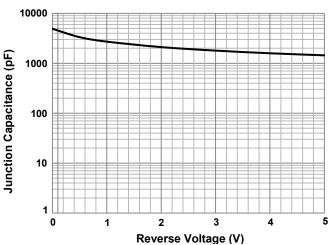


FIG.5 Typical Junction Capacitance per Diode

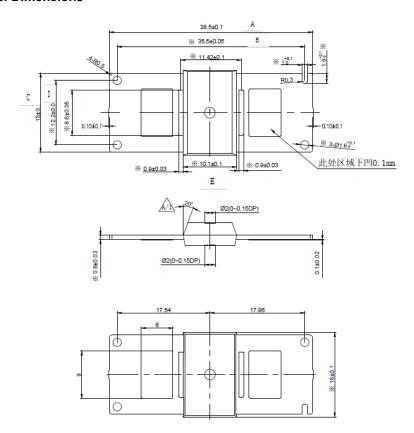


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1.2±0.05

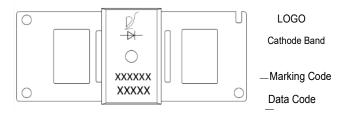


6. Dimensions



| Dimensions | Inches | | Millimeters | |
|------------|--------|-------|-------------|-------|
| | Min | Max | Min | Max |
| А | 1.512 | 1.520 | 38.40 | 38.60 |
| В | 1.396 | 1.400 | 35.45 | 35.55 |
| С | 0.587 | 0.595 | 14.90 | 15.10 |
| D | 0.476 | 0.484 | 12.10 | 12.30 |
| E | 0.394 | 0.402 | 10.00 | 10.20 |
| F | 0.169 | 0.177 | 4.30 | 4.50 |

7.Part Marking System



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