

## Integrated bypass diode for Solar cell Module

#### **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;

#### **Mechanical Data**

Case: QC3Q;

Terminals: Copper;

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

Marking: As marked on product;

#### **Order Information**

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

#### **Typical Applications**

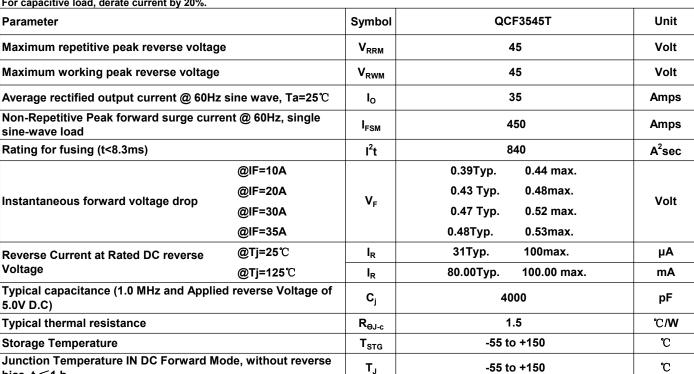
bias, t ≤1 h

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

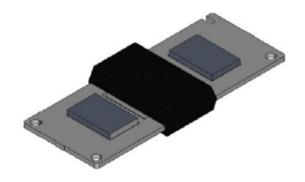
### **Maximum Ratings and Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.







QC3Q

Case: QC3Q

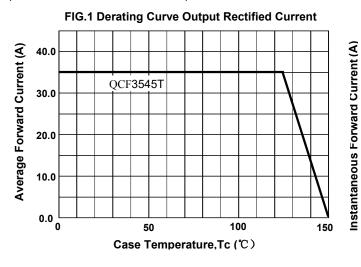
Dimensions in milimeters

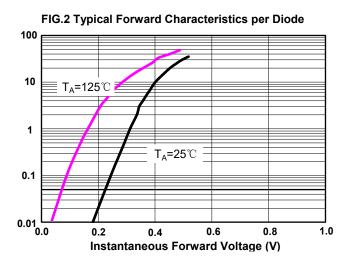
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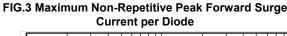


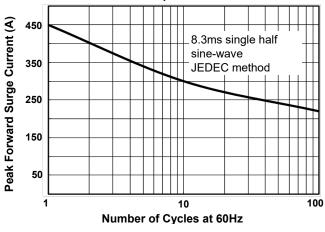
## **Ratings and Characteristics Curves**

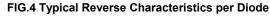
(TA = 25<sup>°</sup>C unless otherwise noted)











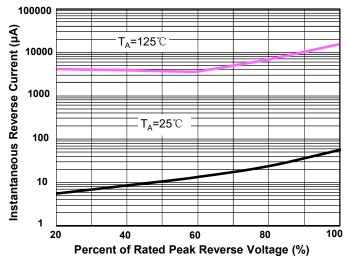
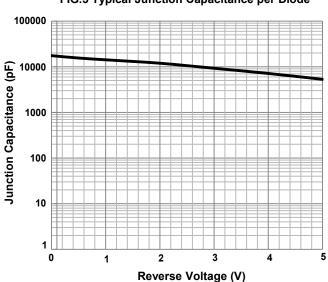


FIG.5 Typical Junction Capacitance per Diode

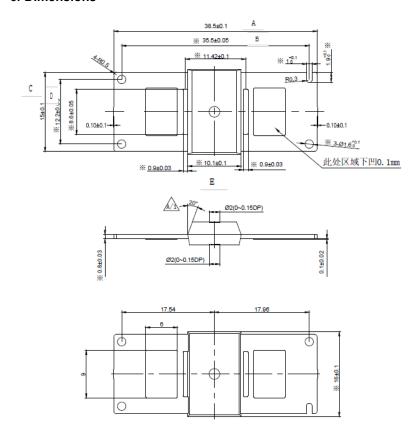


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1.2±0.05

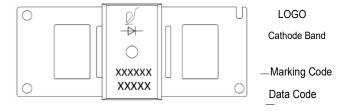


# 6. Dimensions



| Dimensions | Inches |       | Millimeters |       |
|------------|--------|-------|-------------|-------|
|            | Min    | Max   | Min         | Max   |
| Α          | 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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