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SMD Glass Passivated Bridge Rectifiers



DF2005S-G Thru. DF210S-G

Reverse Voltage: 50 to 1000V

Forward Current: 2.0A

RoHS Device



Features

- -Rating to 1000V PRV
- -Ideal for printed circuit board.
- -Low forward voltage drop.
- -High current capability.
- -The plastic material has UL flammability classification 94V-0
- -UL recognized file # E217139

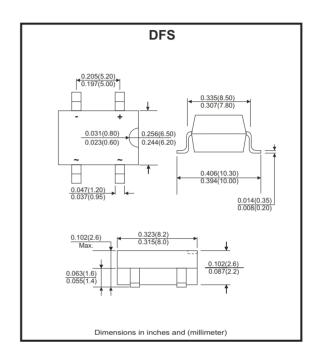


Mechanical Data

-Polarit: As marked on Body

-Weight: 0.02 ounces, 0.38 grams

-Mounting position: Any



Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%

| Parameter | Symbol | DF 2005S-G | DF 201S-G | DF 202S-G | DF 204S-G | DF 206S-G | DF 208S-G | DF 210S-G | Unit |
|---|------------------|---------------|--------------|--------------|------------------|--------------|--------------|--------------|------|
| Maximum Recurrent Peak Reverse Voltage | | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | ٧ |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | ٧ |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | ٧ |
| Maximum Average Forward Rectified Current @Ta=40°C | | | | | А | | | | |
| Peak Forward Surage Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method) | Ігѕм | 60 | | | | А | | | |
| Maximum Forward Voltage at 2.0A DC | VF | 1.1 | | | | V | | | |
| Maximum DC Reverse Current @TJ=25°C At Rate DC Blocking Voltage @TJ=125°C | IR | 10 500 | | | μΑ | | | | |
| I ² T Rating for Fusing (t<8.3ms) | I ² t | 10.4 | | | A ² s | | | | |
| Typical Junction Capacitandce Per Element (Note 1) | Cı | 25 | | | pF | | | | |
| Typical Thermal Resistance (Note 2) | Reja | 40 | | | °C/W | | | | |
| Operating Temperature Range | ΤJ | -55 to +150 | | | °C | | | | |
| Storage Temperature Range | Тѕтс | -55 to +150 | | | °C | | | | |

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5"(13*13mm) copper pads.

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Rating and Characteristics Curves (DF2005S-G Thru. DF210S-G)

Fig.1 - Derating Curve For Output Rcetified Current

2.0

1.6

(A)

1.6

Mounted on PC board, single phase half wave, 60Hz, resistive or inductive load

0

Ambient Temperature, (°C)

Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

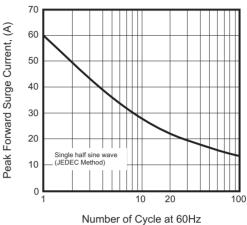


Fig.3 - Typical Junction Capacitance

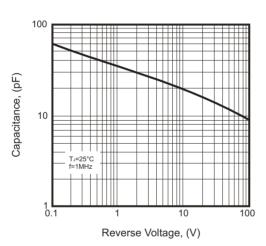


Fig.4 - Typical Forward Characteristics

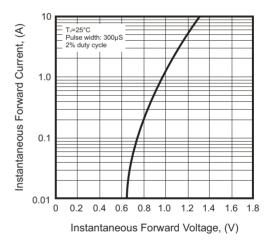
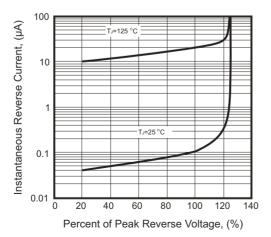


Fig.5 - Typical Reverse Characteristics

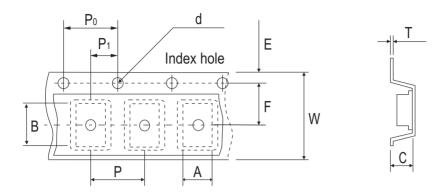


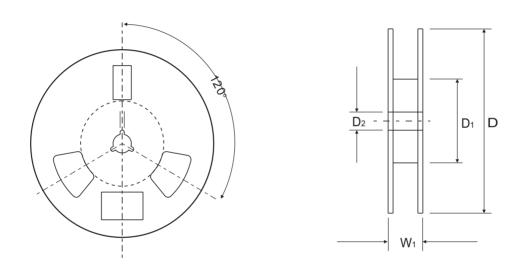
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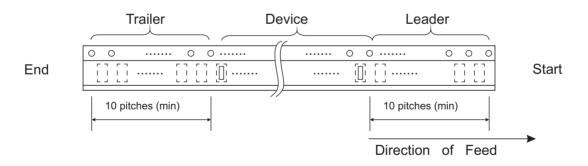
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Reel Taping Specification







| | SYMBOL | Α | В | С | d | D | D1 | D2 |
|-----|--------|---------------|---------------|---------------|---------------|-----|------------|---------------|
| DFS | (mm) | 8.64 ± 0.10 | 10.41 ± 0.10 | 3.81 ± 0.10 | 1.55 ± 0.05 | 330 | 50.0 MIN. | 13.00 ± 0.20 |
| | (inch) | 0.340 ± 0.004 | 0.409 ± 0.004 | 0.150 ± 0.004 | 0.061 ± 0.002 | 13 | 1.969 MIN. | 0.512 ± 0.008 |

| ı | | SYMBOL | Е | F | Р | P ₀ | P1 | T | W | W 1 |
|---|-----|--------|---------------|---------------|---------------|----------------|---------------|-------|---------------|-------------|
| ı | DFS | (mm) | 1.75 ± 0.10 | 7.50 ± 0.05 | 12.00 ± 0.10 | 4.00 ± 0.10 | 2.00 ± 0.10 | 0.32 | 16.00 ± 0.30 | 16.00~18.40 |
| ı | | (inch) | 0.069 ± 0.004 | 0.295 ± 0.002 | 0.472 ± 0.004 | 0.157 ± 0.004 | 0.079 ± 0.004 | 0.013 | 0.630 ± 0.012 | 0.630~0.724 |

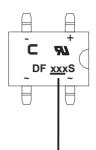
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Marking Code

| Part Number | Marking code | Packaging |
|-------------|--------------|-----------|
| DF2005SP-G | DF2005S | Tube |
| DF201SP-G | DF201S | Tube |
| DF202SP-G | DF202S | Tube |
| DF204SP-G | DF204S | Tube |
| DF206SP-G | DF206S | Tube |
| DF208SP-G | DF208S | Tube |
| DF210SP-G | DF210S | Tube |
| DF2005ST-G | DF 2005S | Reel |
| DF201ST-G | DF201S | Reel |
| DF202ST-G | DF202S | Reel |
| DF204ST-G | DF204S | Reel |
| DF206ST-G | DF206S | Reel |
| DF208ST-G | DF208S | Reel |
| DF210ST-G | DF210S | Reel |



XXX / XXXX = Product type marking code C = Comchip Logo

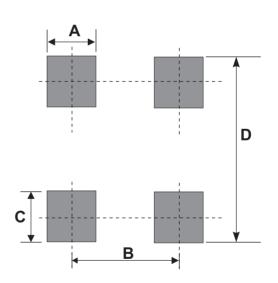
Note:

1) Suffix code after part number to specify packaging item .

| Packaging | Code |
|-----------|------|
| TUBE PACK | Р |
| REEL PACK | Т |

Suggested PAD Layout

| SIZE | DFS | | | |
|------|-----------|-----------|--|--|
| SIZE | (mm) | (inch) | | |
| Α | 1.20 Min | 0.047 Min | | |
| В | 5.21 REF | 0.205 REF | | |
| С | 1.52 Min | 0.060 Min | | |
| D | 10.26 Max | 0.404 Max | | |



Standard Packaging

| | TUBE PACK | | | |
|-----------|-----------------|-------------------|--|--|
| Case Type | TUBE (pcs) | Carton (pcs) | | |
| DFS | 50 | 10,000 | | |

| | REEL PACK | | | |
|-----------|-----------------|---------------------|--|--|
| Case Type | REEL (pcs) | Reel Size (inch) | | |
| DFS | 1,000 | 13 | | |

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