



Schottky Rectifier



Features

- V_R 40V
- I_{FAV} 0.5A
- For Surface Mount Application
- Moisture Sensitivity Level 1



Mechanical Data

- Package: SOD123
- Terminals: Tin plated leads, solderable per
- J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end
- Marking: R41

■Maximum Ratings (Ta=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | Conditions | VALUE |
|--|------------------|------------|------------------|-------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | ٧ | | 40 |
| DC Blocking Voltage | V _R | V | | 40 |
| Peak forward surge current | I _{FSM} | Α | 8.3ms, half sine | 5.5A |
| Average forward current | I _{FAV} | Α | | 0.5 |
| Power dissipation | P _{tot} | mW | | 410 |
| Maximum junction temperature | T _j | $^{\circ}$ | | -55 to +150 |
| Storage temperature range | T_{stg} | $^{\circ}$ | | -55 to +150 |

■Ordering Information (Example)

| PREFERED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE | |
|--------------|-----------------|-------------------|-------------------------|----------------------------|----------------------------|---------------|--|
| B0540W | F2 | Approximate 0.011 | 3000 | 30000 | 120000 | 7" reel | |

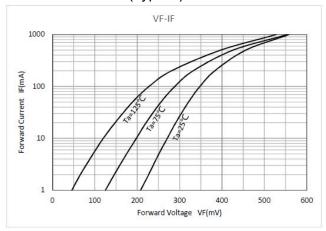
■Electrical Characteristics (Ta=25°C Unless otherwise specified)

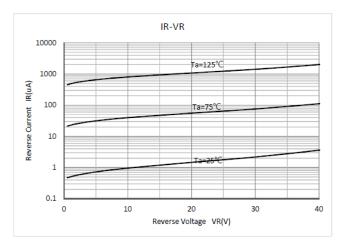
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|-------------------------|---------------------------|-------------|--|-----|-----|------|--|--|
| PARAMETER | Symbol | UNIT | Conditions | Min | Тур | Max | | |
| Breakdown Voltage | V_R | V | I _R =20uA | 40 | | | | |
| Converd Voltage | V _F | > | I _F =0.5A, T _A =25°C | | | 0.51 | | |
| Forward Voltage | | | I _F =1A, T _A =25℃ | | | 0.62 | | |
| Devenue Leekene Coment | I _R | uA | V _R =20V | | | 10 | | |
| Reverse Leakage Current | | | V _R =40V | | | 20 | | |
| Junction Capacitance | CJ | pF | V _R =4V,f=1MHz | | 30 | | | |

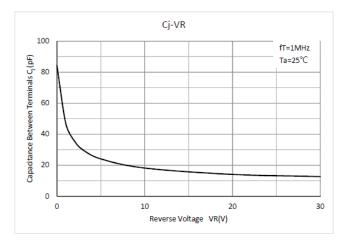




■ Characteristics (Typical)



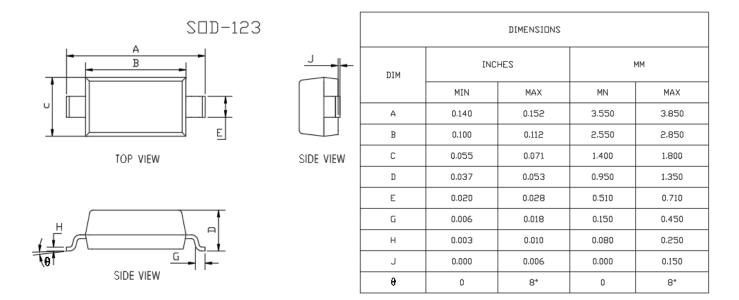




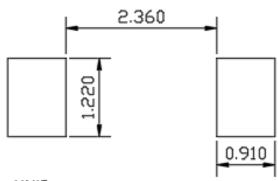




■ Outline Dimensions



■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



B0540W

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