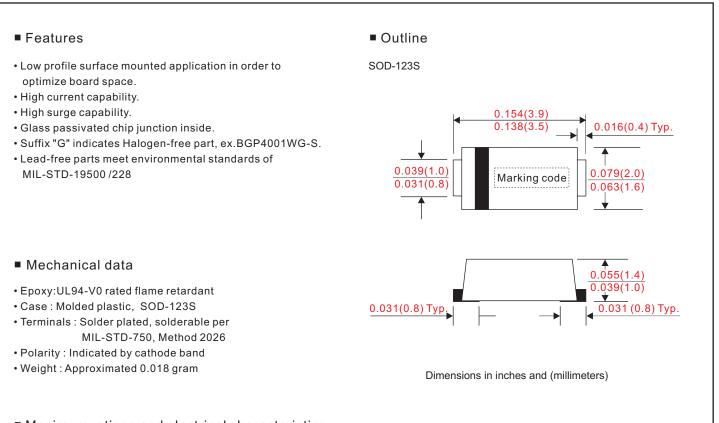


BGP4001W-S THRU BGP4007W-S

1A Surface Mount General Purpose Rectifiers



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%.

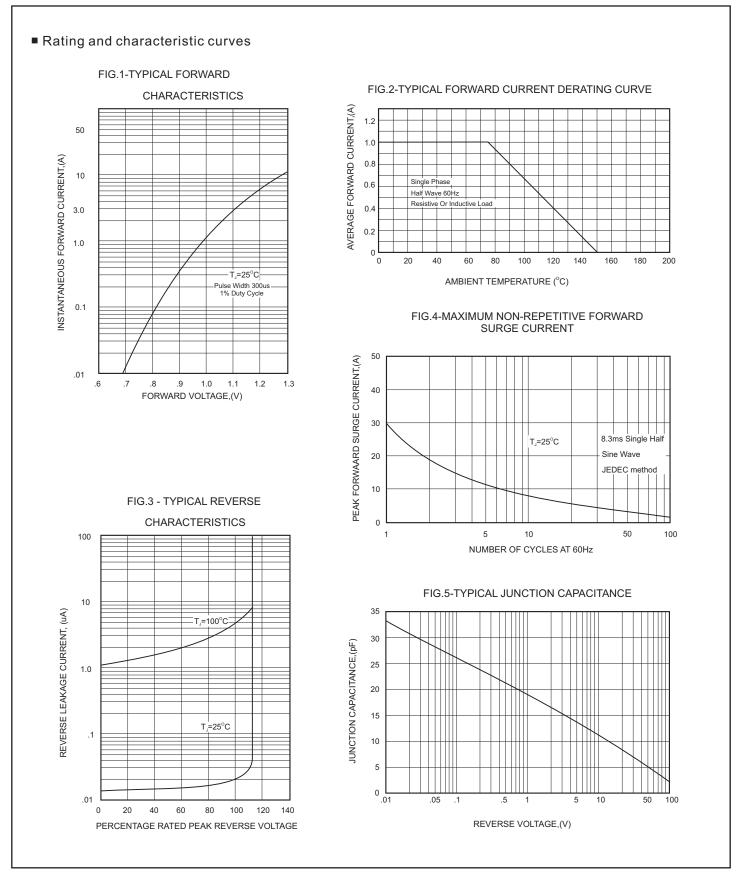
| Parameter | Conditions | Symbol | MIN. | TYP. | MAX. | UNIT |
|----------------------------|--|------------------|------|------|------|------|
| Forward rectified current | | I _o | | | 1.0 | А |
| Forward surge current | 8.3ms single half sine-wave superimposed on rate load (JEDEC method) | I _{fsm} | | | 30 | А |
| _ | $V_{R} = V_{RRM} T_{A} = 25^{\circ}C$ | 1 | | | 5.0 | uA |
| Reverse current | $V_{R} = V_{RRM} T_{A} = 125^{\circ}C$ | I _R | | | 100 | |
| Thermal resistance | Junction to ambient | R _{eja} | | 60 | | °C/W |
| Diode junction capacitance | f=1MHz and applied 4V DC reverse voltage | C | | 15 | | pF |
| Storage temperature | | T _{stg} | -55 | | +150 | °C |

| Symbol | Marking code | Max. repetitive peak reverse voltage V _{RRM} (V) | Max. RMS voltage V _{RMS} (V) | Max. DC blocking voltage V _R (V) | Max. forward voltage @1.0A, $T_A = 25^{\circ}C$ $V_F(V)$ | Operating temperature T _J (°C) |
|------------|--------------|--|---|---|---|--|
| BGP4001W-S | A1 | 50 | 35 | 50 | | |
| BGP4002W-S | A2 | 100 | 70 | 100 | | |
| BGP4003W-S | A3 | 200 | 140 | 200 | | |
| BGP4004W-S | A4 | 400 | 280 | 400 | 1.10 | -55 ~ +150 |
| BGP4005W-S | A5 | 600 | 420 | 600 | | |
| BGP4006W-S | A6 | 800 | 560 | 800 | | |
| BGP4007W-S | A7 | 1000 | 700 | 1000 | | |



BGP4001W-S THRU BGP4007W-S

1A Surface Mount General Purpose Rectifiers

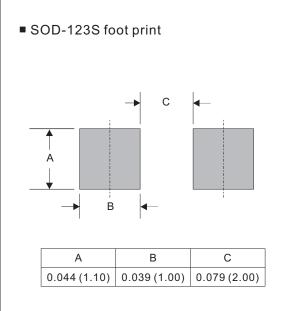


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BGP4001W-S THRU BGP4007W-S

1A Surface Mount General Purpose Rectifiers



Dimensions in inches and (millimeters)

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