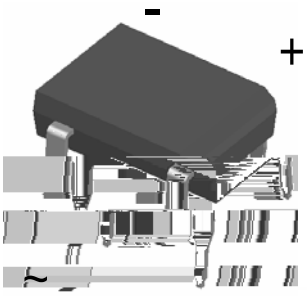
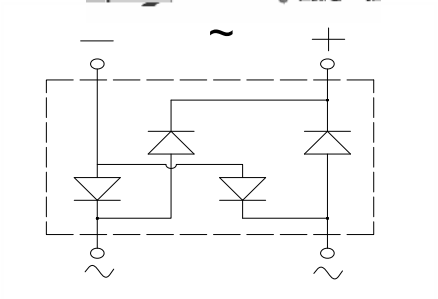
# Bridge Rectifiers





**Features**

- UL recogni E γ m l fiŒnu2u2 À

**Polarity:** As marked on body

## ■Maximum Ratings ($T_a$=25 Unless otherwise specified

| PARAMETER | SYMBOL | UNIT | DBL151 | DBL152 | DBL153 | DBL154 | DBL155 | DBL156 | DBL157 |
|---|---|---|---|---|---|---|---|---|---|
| Device marking code | | | DBL151 | DBL152 | DBL153 | DBL154 | DBL155 | DBL156 | DBL157 |
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | V | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Maximum RMS Voltage | $V_{RMS}$ | V | 35 | 70 | 140 | 280 | 420 | 560 | 700 |
| Maximum DC blocking Voltage | $V_{DC}$ | V | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Average rectified output current @60Hz sine wave, R-load, Tc=126 | $I_O$ | A | 1.5 | | | | | | |
| Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25 | $I_{FSM}$ | A | 60 | | | | | | |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 | | | 120 | | | | | | |
| Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode | $I^2t$ | $A^2s$ | 14.9 | | | | | | |
| Storage temperature | $T_{stg}$ | | -55 ~ +150 | | | | | | |
| Junction temperature | $T_j$ | | -55 ~ +150 | | | | | | |

## ■Electrical Characteristics $T_a$=25 Unless otherwise specified

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | DBL151 | DBL152 | DBL153 | DBL154 | DBL155 | DBL156 | DBL157 |
|---|---|---|---|---|---|---|---|---|---|---|
| Maximum instantaneous forward voltage drop per diode | $V_F$ | V | $I_{FM}$=0.7A | 1.0 | | | | | | |
| Maximum DC reverse current at rated DC blocking voltage per diode | $I_R$ | μA | $T_j$=25 | 5 | | | | | | |
| | | | $T_j$=125 | 100 | | | | | | |
| Typical junction capacitance | Cj | pF | Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C | 19 | | | | | | |

## ■Thermal Characteristics $T_a$=25 Unless otherwise specified

| PARAMETER | SYMBOL | UNIT | DBL151 | DBL152 | DBL153 | DBL154 | DBL155 | DBL156 | DBL157 |
|---|---|---|---|---|---|---|---|---|---|
| Typical Thermal Resistance | $R_{\theta J-A}$ | /W | 40.0 | | | | | | |
| | $R_{\theta J-L}$ | | 15.0 | | | | | | |
| | $R_{\theta J-C}$ | | 8.0 | | | | | | |

Note: Device mounted on P.C.B with 35mm*25mm*1.7mm

## ■Ordering Information (Example)

| PREFERED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---|---|---|---|---|---|---|
| DBL151 ~ DBL157 | B1 | Approximate 0.37 | 50 | 2500 | 10000 | Tube |

## ■ Characteristics (Typical)

FIG1:Io-Tc Curve

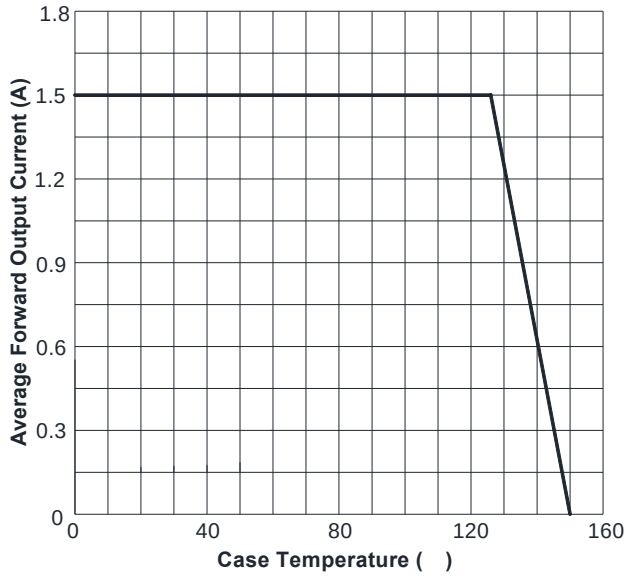



FIG2:Surge Forward Current Capability

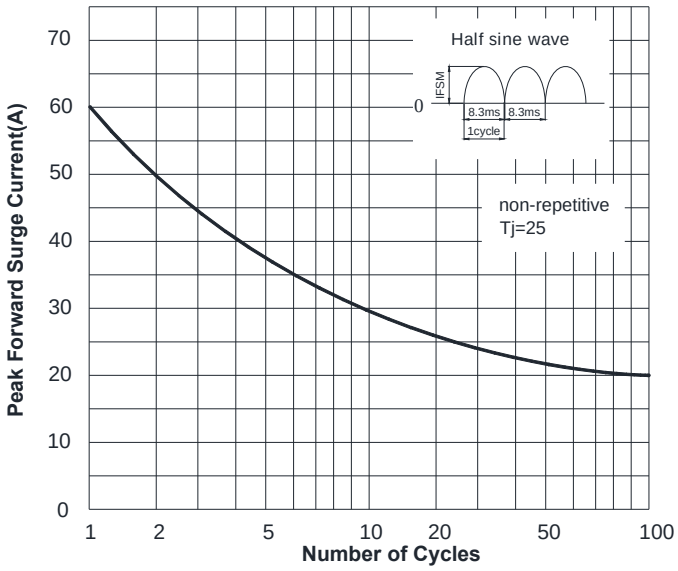



FIG3: Typical Forward Voltage

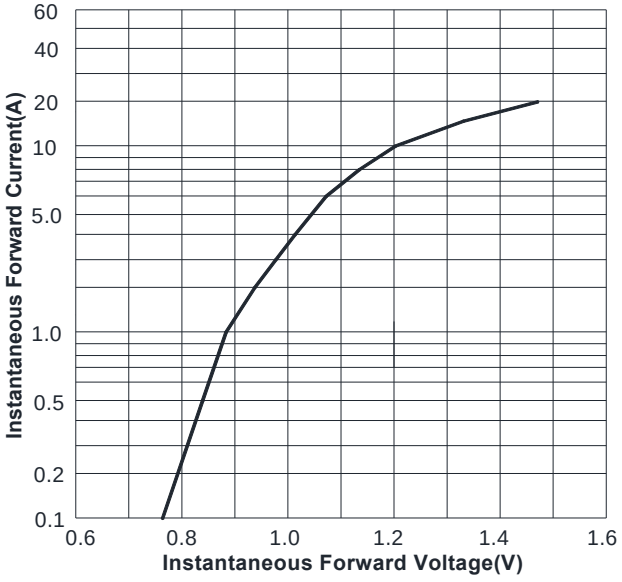
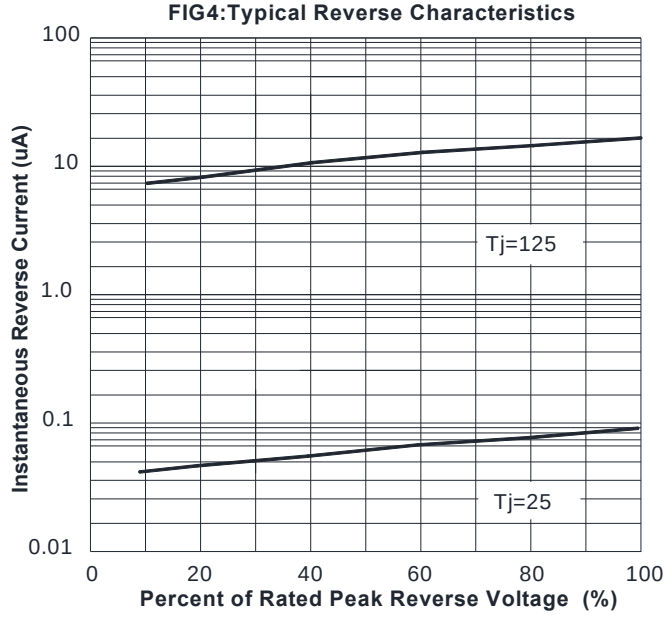



FIG4:Typical Reverse Characteristics



## ■ Outline Dimensions

| DBL | | |
|---|---|---|
| Dim | Min | Max |
| A | 6.20 | 6.50 |
| B | 7.60 | 8.90 |
| C | 5.00 | 5.20 |
| D | 8.13 | 8.51 |
| E | 0.46 | 0.58 |
| F | 2.35 | 2.45 |
| G | 0.22 | 0.33 |
| H | 3.81 | 4.69 |
| I | 1.39 | 1.90 |
| J | 1.27 | 2.03 |
| K | 0.89 | 1.14 |
| L | 7.24 | 8.00 |

**Dimensions in millimeters**

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