



Dual Digit LED Displays 16-Segment, ± 1 Overflow, 7-Segment

| Digit Size | Part No. | | Chip | | Absolute Maximum Ratings | | | | Electro-optical Data(At 10mA) | | | Drawing No. | |
|------------------------------|------------------|----------------------|------------------------|-----------------------------------|--------------------------|---------|---------|----------|-------------------------------|------|-------------------------|-------------|-------|
| | Common Anode | Common Cathode | Material/Emitted Color | Peak Wave Length λ_p (nm) | $\Delta\lambda$ (nm) | Pd (mw) | If (mA) | Ifp (mA) | Vf (v) | | Iv. Typ. Per.Seg. (mcd) | | |
| | | | | | | | | | Typ. | Max. | | | |
| 0.52" Dual-Digit | BD-A531RD | BD-C531RD | GaAsP/Red | 655 | 40 | 80 | 40 | 200 | 1.7 | 2.0 | 0.8 | DD-19 | |
| | BD-A535RD | BD-C535RD | GaP/ Bright Red | 700 | 90 | 40 | 15 | 50 | 2.2 | 2.5 | 1.5 | | |
| | BD-A535RE | BD-C535RE | | | | | | | | | | | |
| | BD-A532RD | BD-C532RD | GaP/ Green | 568 | 30 | 80 | 30 | 150 | 2.2 | 2.5 | 3.5 | | |
| | BD-A533RD | BD-C533RD | GaAsP/GaP/ Yellow | 585 | 35 | 80 | 30 | 150 | 2.1 | 2.5 | 2.5 | | |
| | BD-A534RD | BD-C534RD | GaAsP/GaP/ Hi-Eff.Red | 635 | 45 | 80 | 30 | 150 | 2.0 | 2.5 | 3.5 | | |
| | | | GaAsP/GaP/ Orange | | | | | | | | | | |
| | BD-A536RD | BD-C536RD | GaAlAs/ SH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 6.5 | | |
| BD-A53DRD | BD-C53DRD | GaAlAs/ DH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 7.5 | | | |
| 0.54" Alpha-Numeric Displays | BD-E521RD | BD-F521RD | GaAsP/Red | 655 | 40 | 80 | 40 | 200 | 1.7 | 2.0 | 0.8 | DD-20 | |
| | BD-E525RD | BD-F525RD | GaP/ Bright Red | 700 | 90 | 40 | 15 | 50 | 2.2 | 2.5 | 1.5 | | |
| | BD-E525RE | BD-F525RE | | | | | | | | | | | |
| | BD-E522RD | BD-F522RD | GaP/ Green | 568 | 30 | 80 | 30 | 150 | 2.2 | 2.5 | 3.5 | | |
| | BD-E523RD | BD-F523RD | GaAsP/GaP/ Yellow | 585 | 35 | 80 | 30 | 150 | 2.1 | 2.5 | 2.5 | | |
| | BD-E524RD | BD-F524RD | GaAsP/GaP/ Hi-Eff.Red | 635 | 45 | 80 | 30 | 150 | 2.0 | 2.5 | 3.5 | | |
| | | | GaAsP/GaP/ Orange | | | | | | | | | | |
| | BD-E526RD | BD-F526RD | GaAlAs/ SH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 6.5 | | |
| BD-E52DRD | BD-F52DRD | GaAlAs/ DH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 7.5 | | | |
| 0.56" Dual-Digit | BD-A511RD | BD-C511RD | GaAsP/Red | 655 | 40 | 80 | 40 | 200 | 1.7 | 2.0 | 0.8 | DD-21 | |
| | BD-A515RD | BD-C515RD | GaP/ Bright Red | 700 | 90 | 40 | 15 | 50 | 2.2 | 2.5 | 1.5 | | |
| | BD-A515RE | BD-C515RE | | | | | | | | | | | |
| | BD-A512RD | BD-C512RD | GaP/ Green | 568 | 30 | 80 | 30 | 150 | 2.2 | 2.5 | 3.5 | | |
| | BD-A513RD | BD-C513RD | GaAsP/GaP/ Yellow | 585 | 35 | 80 | 30 | 150 | 2.1 | 2.5 | 2.5 | | |
| | BD-A514RE | BD-C514RE | GaAsP/GaP/ Hi-Eff.Red | 635 | 45 | 80 | 30 | 150 | 2.0 | 2.5 | 3.5 | | |
| | | | GaAsP/GaP/ Orange | | | | | | | | | | |
| | BD-A516RD | BD-C516RD | GaAlAs/ SH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 6.5 | | |
| BD-A51DRD | BD-C51DRD | GaAlAs/ DH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 7.5 | | | |
| 0.56" Dual-Digit | BD-A541RD | BD-C541RD | GaAsP/Red | 655 | 40 | 80 | 40 | 200 | 1.7 | 2.0 | 0.9 | DD-22 | |
| | BD-A545RD | BD-C545RD | GaP/ Bright Red | 700 | 90 | 40 | 15 | 50 | 2.2 | 2.5 | 1.6 | | |
| | BD-A545RE | BD-C545RE | | | | | | | | | | | |
| | BD-A542RD | BD-C542RD | GaP/ Green | 568 | 30 | 80 | 30 | 150 | 2.2 | 2.5 | 3.8 | | |
| | BD-A543RD | BD-C543RD | GaAsP/GaP/ Yellow | 585 | 35 | 80 | 30 | 150 | 2.1 | 2.5 | 2.8 | | |
| | BD-A544RE | BD-C544RE | GaAsP/GaP/ Hi-Eff.Red | 635 | 45 | 80 | 30 | 150 | 2.0 | 2.5 | 3.6 | | |
| | | | GaAsP/GaP/ Orange | | | | | | | | | | |
| | BD-A546RD | BD-C546RD | GaAlAs/ SH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 6.8 | | |
| | BD-A54DRD | BD-C54DRD | GaAlAs/ DH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 7.8 | | |
| | 0.56" Dual-Digit | BD-E541RD | BD-F541RD | GaAsP/Red | 655 | 40 | 80 | 40 | 200 | 1.7 | 2.0 | 0.9 | DD-23 |
| | | BD-E545RD | BD-F545RD | GaP/ Bright Red | 700 | 90 | 40 | 15 | 50 | 2.2 | 2.5 | 1.6 | |
| | | BD-E545RE | BD-F545RE | | | | | | | | | | |
| | | BD-E542RD | BD-F542RD | GaP/ Green | 568 | 30 | 80 | 30 | 150 | 2.2 | 2.5 | 3.8 | |
| | | BD-E543RD | BD-F543RD | GaAsP/GaP/ Yellow | 585 | 35 | 80 | 30 | 150 | 2.1 | 2.5 | 2.8 | |
| BD-E544RE | | BD-F544RE | GaAsP/GaP/ Hi-Eff.Red | 635 | 45 | 80 | 30 | 150 | 2.0 | 2.5 | 3.6 | | |
| | | | GaAsP/GaP/ Orange | | | | | | | | | | |
| BD-E546RD | | BD-F546RD | GaAlAs/ SH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 6.8 | | |
| BD-E54DRD | | BD-F54DRD | GaAlAs/ DH Super Red | 660 | 20 | 80 | 30 | 150 | 1.7 | 2.5 | 7.8 | | |



| | |
|--|--|
| <p>DD-19 BD-$\frac{A}{C}$53xRD</p> | <p>DD-20 BD-$\frac{E}{F}$52xRD</p> |
| <p>DD-21 BD-$\frac{A}{C}$51xRD</p> | <p>DD-22 BD-$\frac{A}{C}$54xRD</p> |
| <p>DD-23 BD-$\frac{E}{F}$54xRD</p> | |

NOTES: 1. ALL Dimensions are in millimeters(inches).
 2. Tolerance is ±0.25mm(.010")
 3. Specifications are subject to change without notice.
 4. NP: No Pin. 5. NC: No Connect