

980-S-XX-350mW

XX = configuration

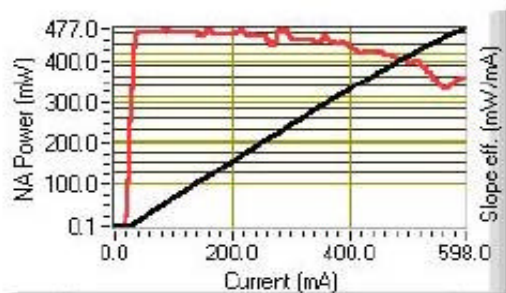
980nm, high brightness, high reliability, single mode laser diodes with 350 mW out put from 5 μm aperture.
Standard configurations include: C-Mount, Q-Mount, Sub-Mount, and 9mm. Other packages options including fiber coupling, are available.



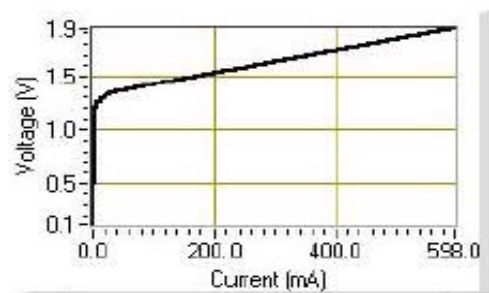
Application:

Pumps source, medical, commercial printing, free space communication, material processing, military, homeland security and banking authentication.

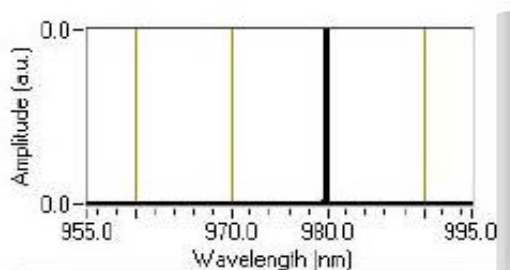
| Parameter | Unit | Minimum | Typical | Maximum | Condition |
|------------------------------------|---------------|---------|---------|------------------|-----------------|
| Aperture | μm | | 5 | | |
| Cavity Length | μm | | 1500 | | |
| Wavelength | nm | 975 | 980 | 985 | at 25 °C, P_o |
| Spectrum FWHM | nm | | 0.5 | 2 | at 25 °C, P_o |
| Operating Power (P_o) | mW | | 350 | 350 | at 25 °C |
| Operating Current (I_o) | mA | | 400 | 450 | at 25 °C, P_o |
| Operating Voltage (V_o) | V | | 1.7 | 2 | at 25 °C |
| Lifetime | hour | 10,000 | | | at 25 °C |
| Vertical Far Field | deg, FWHM | | 30 | 35 | at 25 °C, P_o |
| Parallel Far Field | deg, FWHM | | 8 | 10 | at 25 °C, P_o |
| Threshold (I_{th}) | mA | | 30 | 50 | at 25 °C |
| Slope Efficiency (dP/dI) | W/A | 0.8 | 0.9 | | at 25 °C |
| Maximum Operating Current | mA | | | defined by I_o | at 350 mW |
| Storage Temperature | °C | -40 | | 80 | |
| Operating Temperature (T_{op}) | °C | -20 | 25 | 30 | |
| Lead Soldering Temperature | °C | | | 250 | < 5 second |



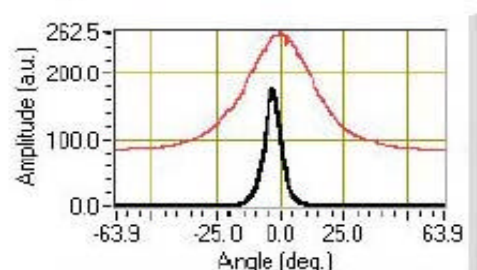
CW L-I, dL/dI curve



CW V-I curve



CW spectrum at 350mW



CW far field at 450mA