

# **Device Modeling Report**

COMPONENTS: Laser Diode

PART NUMBER: ML776H10

MANUFACTURER: MITSUBISHI

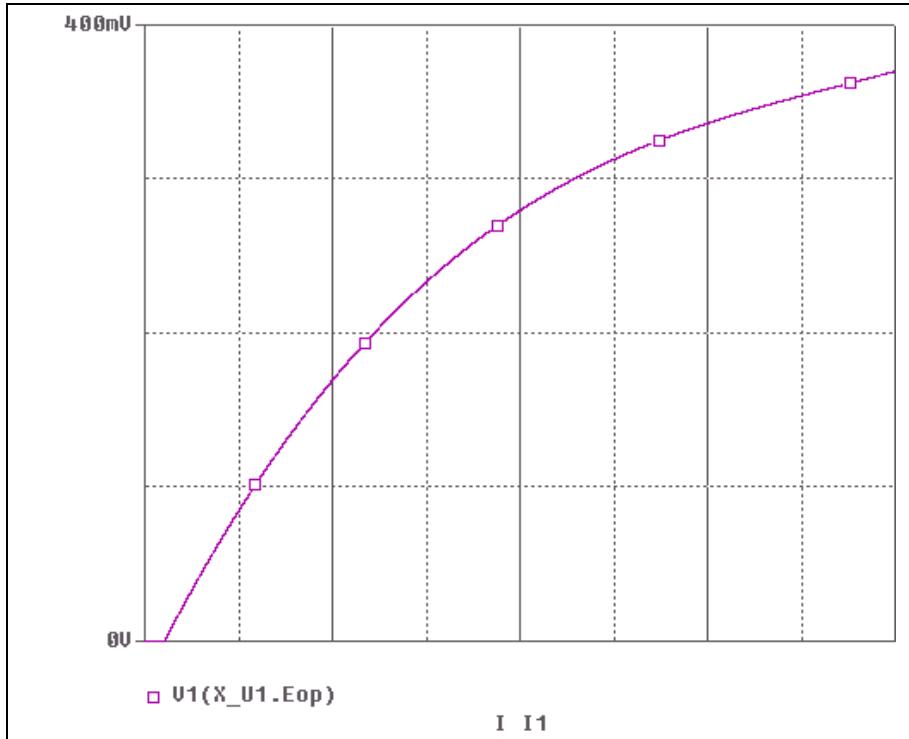


**Bee Technologies Inc.**

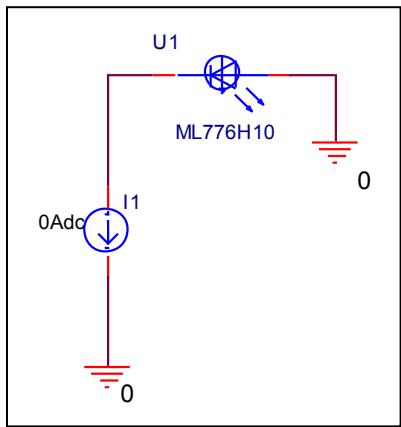
PSpice model parameter	Model description
IS	Saturation Current
N	Emission Coefficient
RS	Series Resistance
IKF	High-injection Knee Current
CJO	Zero-bias Junction Capacitance
M	Junction Grading Coefficient
VJ	Junction Potential
ISR	Recombination Current Saturation Value
BV	Reverse Breakdown Voltage(a positive value)
IBV	Reverse Breakdown Current(a positive value)
TT	Transit Time

## Optical Output Power vs. Forward current characteristics

Circuit simulation result

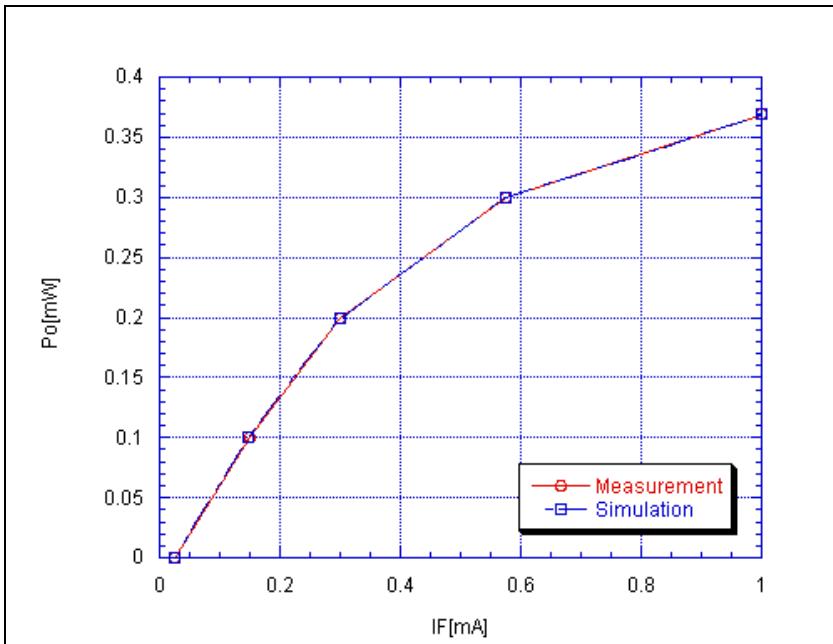


Evaluation circuit



## Comparison graph

Circuit simulation result



Simulation Result

Po[mW]	IF[mA]		Error (%)
	Measurement	Simulation	
0	0.025	0.025	0
0.1	0.15	0.148	1.3333
0.2	0.3	0.305	1.6666
0.3	0.575	0.571	0.6956
0.37	1	1	0