Device Modeling Report

COMPONENTS: LASER DIODE

PART NUMBER: ML120G18

MANUFACTURER: MITSUBISHI

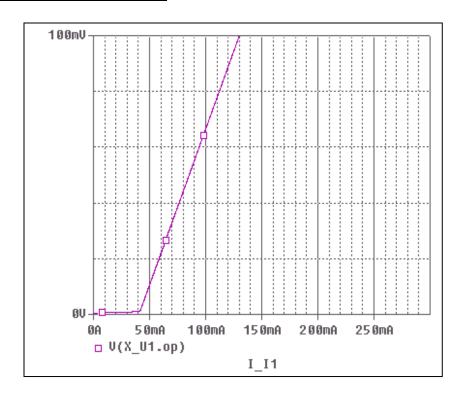


Bee Technologies Inc.

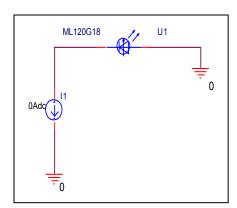
PSpice model parameter	Model description		
IS	Saturation Current		
N	Emission Coefficient		
RS	Series Resistance		
IKF	High-injection Knee Current		
CJO	Zero-bias Junction Capacitance		
M	Junction Grading Coefficient		
VJ	Junction Potential		
ISR	Recombination Current Saturation Value		
BV	Reverse Breakdown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

Optical Output Power vs. Forward current characteristics

Circuit simulation result

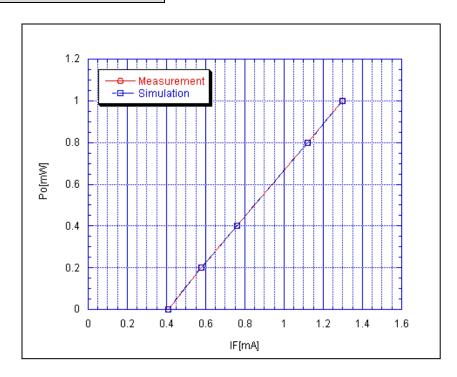


Evaluation circuit



Comparison graph

Circuit simulation result



Simulation Result

Po[mW]	IF[m	Error (%)	
	Measurement	Simulation	
0	0.41	0.41	0
0.2	0.58	0.579	0.17241
0.4	0.76	0.759	0.13157
0.6	0.94	0.94	0
0.8	1.12	1.12	0
1	1.3	1.3	0