

## US-Lasers: 660nm-5mW - Red Laser Diode

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### RED LASER DIODE DATA SHEETS

ABSOLUTE MAXIMUM RATINGS - ( $T_c=25\text{ }^\circ\text{C}$ )

<p><b>TECHNICAL DATA</b></p> <p>Visible laser diode light output                      660nm</p> <p>Optical power output                      5mW CW</p> <p>Package Type                      5.6mm</p> <p>Built-in photo diode for monitoring laser output</p>	<p><b>1 laser cathode</b> <b>2 common case</b> <b>3 monitor diode anode</b></p>
<b>Pin Out Diagram - Style A</b>	

Items	Symbols	Values	Unit
Optical output power	Po	5	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	Topr	-10 ~ +60	$^\circ\text{C}$
Storage temperature	Tstg	-40 ~ +85	$^\circ\text{C}$

### OPTICAL and ELECTRICAL CHARACTERISTICS - ( $T_c=25\text{ }^\circ\text{C}$ )

Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition
Optical output power	Po	-	5	-	mW	-
Threshold current	Ith	-	20	40	mA	-
Operating current	Iop	-	40	60	mA	Po=5mW
Operating voltage	Vop	-	2.7	-	V	Po=5mW
Lasing wavelength		655	660	665	nm	Po=5mW
Beam divergence		-	5	11	deg	Po=5mW
Beam divergence		-	25	37	deg	Po=5mW
Monitor current	Is	-	10	20	uA	Po=5mW
Astigmatism	As	-	11	-	um	Po=5mW
MTTF			10000 hrs			Po=5mW
Emitter Size	10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm					
Structure	Index Guided					