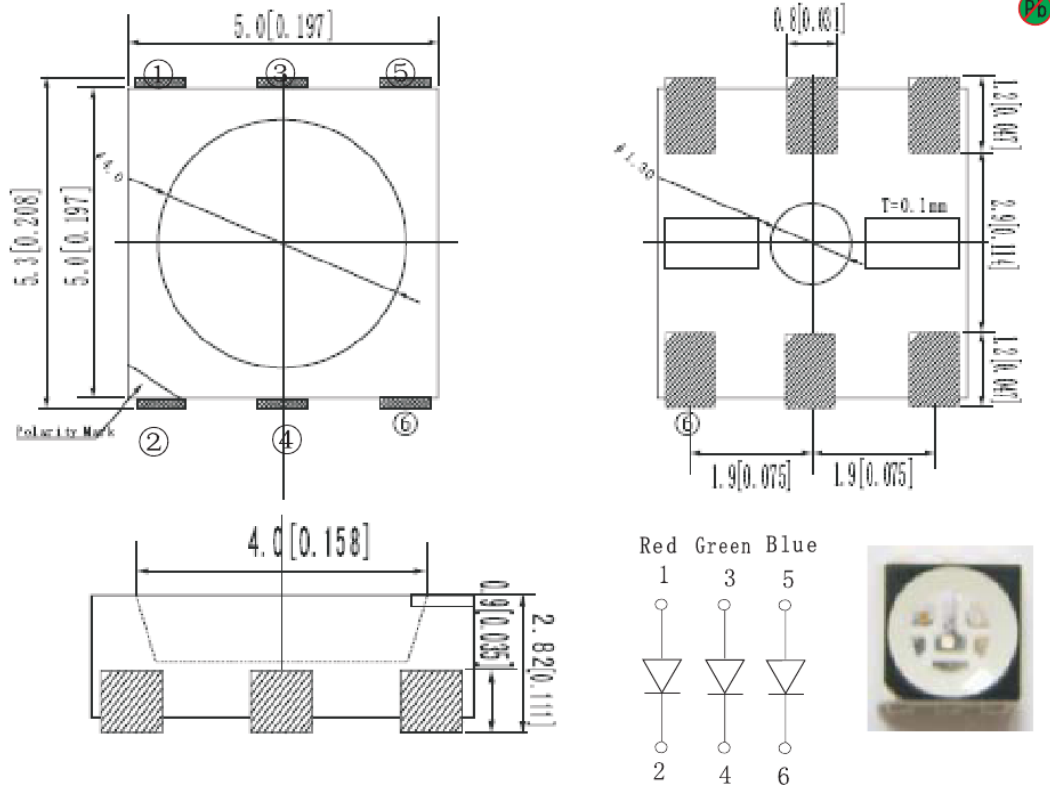


5.0*5.0*1.6mm SMD LED(SMD5050)

MODEL NO. : IE-5050RGB50-12D

Package outlines



ITEM	MATERIALS
Resin(mold)	Silicone
Bonding Wire	φ21μm Au
Lens color	Water Clear
Printed circuit board	PPA Cu
Emitted color	Red Green Blue
Face color	Black

Notes:

- All dimensions are in mm.
- Tolerance is ± 0.25 mm unless otherwise noted.

▲ LEDs
▲ LED Displays
▲ LED Light

▲ Infrared LEDs
▲ LCD Backlight

5.0*5.0*1.6mm SMD LED(SMD5050)

MODEL NO.: IE-5050RGB50-12D

Absolute maximum ratings (T_A=25°C)

Parameter	Symbol	Value			Unit
		R	G	B	
Power dissipation	Pd	60	90	90	mW
Forward current	If	30*3			mA
Reverse voltage	Vr	5			V
Operating temperature range	Top	-25~+85			°C
Storage temperature range	Tstg	-40~+100			°C
Peak pulsing current	Ifp	100*3			mA

Electro-optical characteristics (T_A=25°C)

Parameter	Symbol	Condition	Color	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =20mA	RED	1.65	2.0	2.4	V
			GREEN	2.4	2.7	3.2	
			BLUE	2.8	3.1	3.6	
Dominant Wavelength	λ _d	I _F =20mA	RED	617	—	630	nm
			GREEN	516	—	526	
			BLUE	466	—	476	
Spectrum Radiation Bandwidth	Δλ	I _F =20mA	RED	—	25	—	nm
			GREEN	—	20	—	
			BLUE	—	20	—	
Luminous Intensity	I _V	I _F =20mA	RED	250	675	1270	mcd
			GREEN	850	1620	4200	
			BLUE	170	340	850	
Reverse Current	I _R	V _R =5V	—	—	—	10	μA

NOTE: (Tolerance: I_v±10%, λ_d±2nm, V_f±0.05V)

IFP Conditions: Pulse Width≤10msec. and Duty ≤1/10.

- ▲ LEDs
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