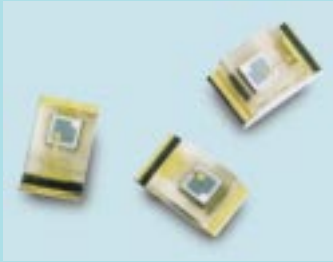


Surface Mount Type Illuminance Sensor RPM-075PT



Items	Symbol	Min.	Ave.	Max.	Unit	Condition
Light current 1	Ic 950	0.25	0.4	0.6	mA	VCE=5V, E950=500 lx
Light current 2	Ic 600	11	19	29	µA	VCE=3V, E600=50 lx
Dark current	IcEO	-	-	0.5	µA	VCE=10V
Peak sensitive wave	λp	-	600	-	nm	
Half angle		-	κ60	-	deg	
Reflective time	Tr tf	-	10	-	µs	VCE=3V, RL=100Ω

Features

- Phototransistor with same sensitivity as the human eye.
- Ideal for various applications including Backlight and Keypad lighting control.
- Small lightweight (0805) size package.

LED's - Ideal Solutions for Backlighting

Side Firing

Part No.	Lens	Electrical Optical Characteristics (Ta=25°C)									
		Forward Voltage V _F		Reverse Current I _R		Light Wavelength			Brightness I _v		
		Typ. (V)	I _F (mA)	Max (µA)	V _R (V)	Peak (nm)	Typ. (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SML-710MW	Milky White	2.2	20	100	4	570	40	20	3.6	14	20

Features

- 0805 size package.
- Built-in side reflector.
- High efficiency light output.
- Available in green at present.
- Other colours, low power and high brightness versions under development.

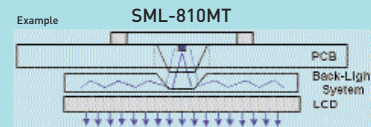


Reverse Mounting

Part No.	Lens	Electrical Optical Characteristics (Ta=25°C)									
		Forward Voltage V _F		Reverse Current I _R		Light Wavelength			Brightness I _v		
		Typ. (V)	I _F (mA)	Max (µA)	V _R (V)	Typ. (nm)	Typ. (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SML-810MT	Transparent	2.2	20	100	4	570	40	20	8.5	16	20

Features

- 0806 size package.
- All components on one PCB side (only one solder process).
- Best light distribution no loss due to light direction change.
- Standard type: 570nm, green 20 mcd/20mA.



High Brightness LED's

SMD Reflector style LED



Part No.	Lens	Electrical Optical Characteristics (Ta=25°C)								
		Forward Voltage V _F		Reverse Current I _R		Light Wavelength			Brightness I _v	
		Typ. (V)	I _F (mA)	Max (µA)	V _R (V)	Peak (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SML-612UT	Transparent Clear	2.0	2.0	100	4	630	20	56	160	20
SML-612DT						611				
SML-612YT						590				

Features

- 1206 size package.
- Metal style reflector.
- Increased centre brightness.
- Designed for re-flow and wave soldering.



Standard Surface Mount LED's

Features

- Packages available from 0603 size.
- SML-211/311 series, $I_f=2\text{mA}$.
- Ideal for various applications (Automotive, Cellular Phones, Battery Powered devices etc).



Surface Mount LED Lamps

Package (mm)	Part No.	Emitting Colour	Absolute maximum ratings (Ta=25°C)						Electrical and optical characteristics (Ta=25°C)																																													
			Power Dissipation Pd (mW)	Forward Current If (mA)	Peak Forward Current Ifp (mA)	Reverse Voltage Vr (V)	Operating Temp Topr (°C)	Storage Temp Tstg (°C)	Forward Voltage Vf		Reverse Current Ia		Light Wave Length Peak Half-wave			Brightness Iv																																						
									Typ. (V)	If (mA)	Max. (mA)	Vr (V)	Ip Typ. (nm)	DI Typ. (nm)	If (mA)	Min. (mcd)	Typ. (mcd)	If (mA)																																				
1.6x0.8 (t=0.8)	SML-310LT	Red	60	25	75	4	-30+85	-40+85	1.75	20	100	4	660	25	20	3.6	10	20																																				
	SML-310VT	Red							2.0										610	40	20	1.4	4																															
	SML-310DT	Orange							2.1															585	16	6.3																												
	SML-310YT	Yellow																									2.2	570	16	6.3																								
	SML-310MT	Green																													1.4	560	4.0																					
	SML-310FT	Light Green																																555	4.0																			
	SML-310PT	Pure Green																																		555	4.0																	
1.6x0.8 (t=0.55)	SML-510MW	Green	55	20	60	4	-30+85	-40+85	2.2	20	100	4	570	40	20	3.6	16	20																																				
2.0x1.25	SML-210LT	Red	75	30	75	4	-30+85	-40+85	1.75	20	100	4	660	25	20	3.6	10	20																																				
	SML-210VT	Red							2.0										610	40	20	1.4	4																															
	SML-210DT	Orange							2.1															585	16	6.3																												
	SML-210YT	Yellow																									2.2	570	16	6.3																								
	SML-210MT	Green																													1.4	560	4.0																					
	SML-210FT	Light Green																																555	4.0																			
	SML-210PT	Pure Green																																		555	4.0																	
1.6x0.8	SML-311UT	Red	22	10	60	4	-30+85	-40+85	1.8	2	100	4	630	18	2	0.9	2.5	2																																				
	SML-311DT	Orange											611	16					0.56	1.6																																		
	SML-311YT	Yellow											590	15																																								
2.0x1.25	SML-211UT	Red	22	10	60	4	-30+85	-40+85	1.8	2	100	4	630	18	2	0.9	2.5	2																																				
	SML-211DT	Orange											611	16																																								
	SML-211YT	Yellow											590	15																																								
3.0x2.0	SML-010JT	Red	75	30	75	4	-30+85	-40+85	1.9	20	100	4	660	25	20	14	40	20																																				
	SML-010LT	Red							1.75										610	40	20	5.6	16																															
	SML-010VT	Red							2.0															585	16	6.3																												
	SML-010DT	Orange							2.1																		570	16	6.3																									
	SML-010YT	Yellow																												2.2	560	10	6.3																					
	SML-010MT	Green																																1.4	555	20	2.2	6.3																
	SML-010FT	Light Green																																					555	6.3														
	SML-010PT	Pure Green																																							555	6.3												
1.3x1.5	SML-521MUW	Red	50	20	60	4	-30+85	-40+85	1.9	20	100	4	630	18	20	22	40	20																																				
	SML-521MUW	Green							70				25	5.6					16																																			
	SML-521MDW	Orange							50				20							2.2	40	22	40																															
	SML-521MDW	Green							70				25											5.6	16																													
	SML-521MYW	Yellow							50				20													1.9	15	22	40																									
	SML-521MYW	Green							70				25																	5.6	16																							
	SML-521MYW	Green							70				25																			5.6	16																					
3.0x2.5	SML-020MLT	Red	60	25	60	4	-30+85	-40+85	1.75	20	100	4	660	25	20	9.0	20	20																																				
	SML-020MLT	Green							2.2				610	40					20	3.6	6.3																																	
	SML-020MVT	Red							2.0													570	16	6.3																														
	SML-020MVT	Green							2.2																560	10	6.3																											
	SML-020MDT	Orange							2.0																			570	20	9.0	20																							
	SML-020MDT	Green																														2.2	585	16	6.3																			
	SML-020MYT	Yellow																																		2.1	570	20	3.6	6.3														
	SML-020MYT	Green																																							2.2	560	10	6.3										
	SML-020PDT	Orange																																											2.0	610	10	5.6	10					
	SML-020PDT	Pure Green																																																2.2	555	4.0	2.2	4.0
	SML-020PDT	Pure Green																																																				