

Chip LEDs

Part Numbers and Emission color symbol

ROHM's entire package lineup, beginning with 1006 ultra small size PICOLED[®] series. Ideal for a wide variety of applications.

There is no hyphon(-) in the part number for W,SP,B and E emitting colors.

Please confirm a detailed emitting color on an individual page of each product.

Emission color symbol

White	Green	Orange
Special	Yellowish-Green	Red
Blue	Yellow	Red
Bluish-Green	Yellow	Red
Green	Orange	Red

Characteristics







Search

Please click a emission color symbol to see the product details.

* PICOLED[™]EXCELED[™] is ROHM's pending trademark.

Mono-color type

Mini-mold

Package size (mm)	Type	Part No.	Emission color	RoHS
 1.0x0.6(t=0.2)	PICOLED [™] -eco series low current chip LED	SML-P11		Yes
		SML-P12		Yes
 1.0x0.6(t=0.2)	PICOLED [™] series ultra small chip LED	NEW SMLP13 ^[1]		Yes
		SMLP12 ^[1]		Yes
		*SML-ET2		Yes
 1.6x0.8(t=0.2)	Mini-mold ultra thin Chip LED	*SML-ET2		Yes
 1.6x0.8(t=0.36)	EXCELED [™] series mini-mold chip LED	SML-E12#8		Yes
		*SML-E13		Yes
		SML-E12		Yes
		NEW SMLE13 ^[1]		Yes
		SMLE12 ^[1]		Yes
		*SMLE14 ^[1]		Yes
 1.6x0.8(t=0.55)	Mini-mold Chip LED	SML-512		Yes
		SML-511		Yes
		SML512 ^[1]		Yes
 1.6x0.8(t=0.55)	EXCELED [™] series mini-mold chip LED	NEW SML-D13#8		Yes
		SML-D12#8		Yes
		NEW SML-D14(A)		Yes
		NEW SML-D13(A)		Yes
		NEW SML-D12		Yes
		SMLD12 ^[1]		Yes



Mini-mold Chip LED

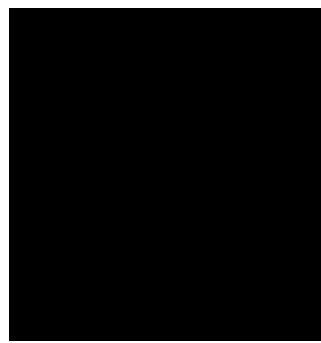
EXCELED™ series mini-mold chip LED

Mini-mold Chip LED

With reflector

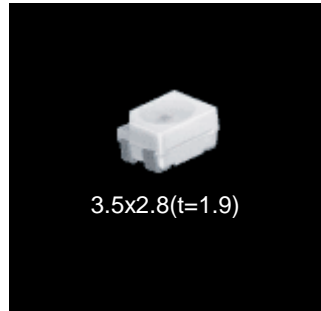
Package size (mm)	Type	Part No.	Emission color	RoHS
1.6x0.8(t=0.55)	Small chip LED with reflector	NEW SML-T13	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		NEW SMLT12 ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		*SMLT12AB ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		*SMLT12CB ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		*SMLT12GB ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		NEW SMLT12SB ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		*SMLT12HB ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		SML-M13	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		*SMLM12*C8 ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SMLM12#C7 ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
2.0x1.25(t=0.8)	Small chip LED with reflector	*SMLM11*C7 ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		NEW SMLM12ABC ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		NEW SMLM12CBC ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		*SMLM12GBC ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		*SMLM12PBC ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		*SMLM12SBC ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		SML-012	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SML-013	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SML-011	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SML012#CT ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
3.0x2.0(t=1.3)	Chip LED with reflector	SML012#C4T ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SML013 ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SML-012#8	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SML-012#	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		*SML-Z15(A)	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SML-Z14(A)	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		SML-Z14#4	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		NEW SMLZ14 ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		NEW SMLZ14WBFAW(A) ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		NEW SMLZ14WBFBW(A) ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
3.5x2.8(t=1.9)	High brightness chip LED with reflector PLCC2	NEW SMLZ14WBFCW ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		NEW SMLZ14WBFDW ^[1]	WB SP B E P F M Y W D C U2 U V L Yes	Yes
		*SMLZ14CBGW(A) ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes
		*SMLZ14PBGW(A) ^[1]	WB SF B E P F M Y W D C U2 U V L Yes	Yes

SML-310	WB SP B E P F M Y W D C U2 U V L Yes
SML-311	WB SP B E P F M Y W D C U2 U V L Yes
SML312#CT ^[1]	WB SP B E P F M Y W D C U2 U V L Yes
SML312#C4T ^[1]	WB SP B E P F M Y W D C U2 U V L Yes
SML312#T ^[1]	WB SP B E P F M Y W D C U2 U V L Yes
SML312#4T ^[1]	WB SP B E P F M Y W D C U2 U V L Yes
SML312#CW ^[1]	WB SP B E P F M Y W D C U2 U V L Yes
SML-H12*8	WB SP B E P F M Y W D C U2 U V L Yes
SML-212	WB SP B E P F M Y W D C U2 U V L Yes
SML-210	WB SP B E P F M Y W D C U2 U V L Yes
SML-211	WB SP B E P F M Y W D C U2 U V L Yes



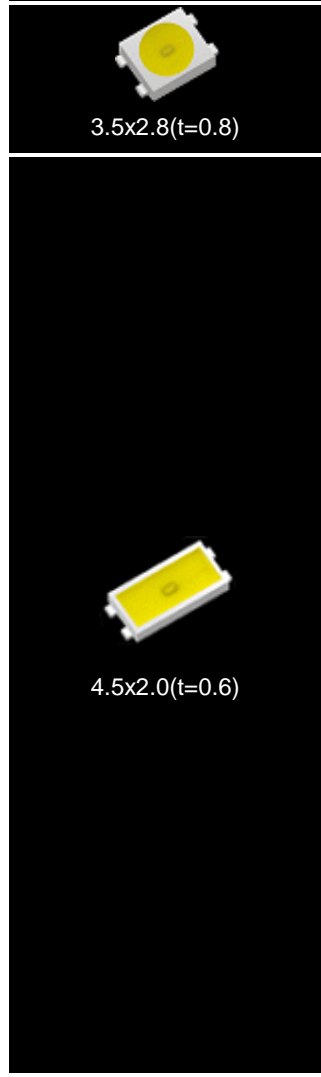
3.5x2.8(t=1.9)

High brightness chip LED with reflector
PLCC4



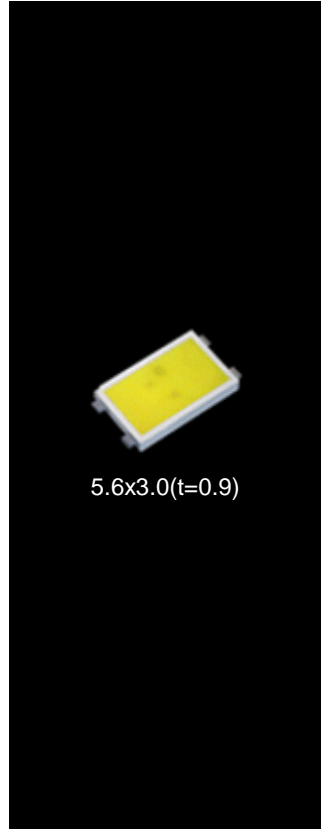
3.5x2.8(t=0.8)

High heat dissipation chip LED with reflector
PSML1



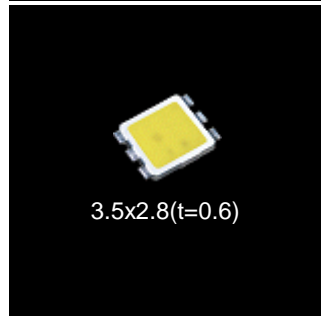
4.5x2.0(t=0.6)

High power
High heat dissipation chip LED with reflector
PSML2



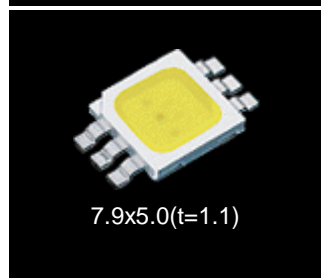
5.6x3.0(t=0.9)

High heat dissipation chip LED with reflector
PSML3 (5000K)



5.6x3.0(t=0.9)

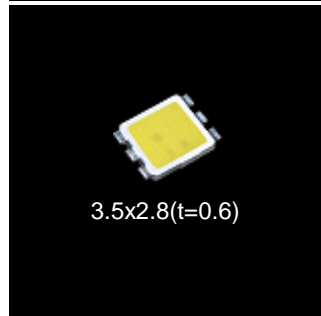
High heat dissipation chip LED with reflector
PSML3 (3000K)



High heat dissipation chip LED with reflector
PSML3

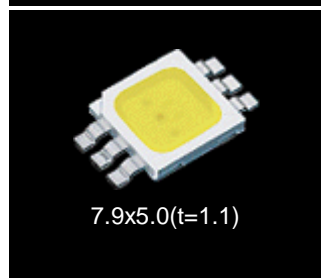


High heat dissipation chip LED with reflector
PSML3 (Wide-gamut)



3.5x2.8(t=0.6)

High power chip LED with reflector
(1W type)



7.9x5.0(t=1.1)

High power chip LED with reflector
(1W type)



High power chip LED with reflector
(1W type)

*SMLZ14SBGW(A)^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLZ18EJT(A)^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLZ18BJT(A)^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLZ18WBJDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLZ18WBJBW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLZ18WBJCW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SML-Y17

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SML-Y16

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SML-Y15

WB SP B E P F H Y W D C U2 U V L Yes

*SMLKA8^[1]

WB SP B E P F H Y W D C U2 U V L Yes

SMLK19WBEAW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

SMLK19WBEBW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

SMLK19WBECW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

SMLK19WBEDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SMLK18WBJAW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SMLK18WBJBW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SMLK18WBJCW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLK18WBJDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SMLK28WBJCW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLK34WBEAW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLK34WBEBW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLK34WBECW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLK34WBEDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

PSL0205WBEBW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

PSL0205WBECW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

PSL0205WBEDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

PSL0205WBFBW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

PSL0205WBFCW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

PSL0205WBFDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

PSL0205WBFDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

PSL0205WBWW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLV36WBFAW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SMLV36WBFBW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SMLV36WBFCW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLV36WBFDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLW36WBFAW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLW36WBFBW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*SMLW36WBFCW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

NEW

SMLW36WBFDW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*PSL0107WBEB^[1]

WB SP B E P F H Y W D C U2 U V L Yes

*PSL0107WBEC^[1]

WB SP B E P F H Y W D C U2 U V L Yes

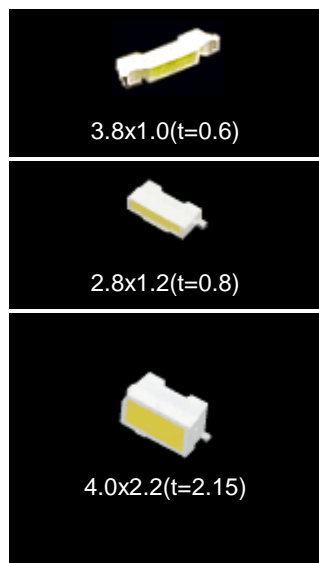
5.0x5.0(t=1.0)

*PSL0107WBED ^[1]		Yes
*PSL0107WBFB ^[1]		Yes
*PSL0107WBFC ^[1]		Yes
*PSL0107WBFD ^[1]		Yes
NEW		
PSL0101WBEA ^[1]		Yes
NEW		
PSL0101WBEB ^[1]		Yes
NEW		
PSL0101WBEC ^[1]		Yes
NEW		
PSL0101WBED ^[1]		Yes
NEW		
PSL0101WBFA ^[1]		Yes
NEW		
PSL0101WBFB ^[1]		Yes
NEW		
PSL0101WBFC ^[1]		Yes
NEW		
PSL0101WBFD ^[1]		Yes
NEW		
PSL0102WBEA ^[1]		Yes
NEW		
PSL0102WBEB ^[1]		Yes
NEW		
PSL0102WBEC ^[1]		Yes
NEW		
PSL0102WBED ^[1]		Yes
NEW		
PSL0102WBFA ^[1]		Yes
NEW		
PSL0102WBFB ^[1]		Yes
NEW		
PSL0102WBFC ^[1]		Yes
NEW		
PSL0102WBFD ^[1]		Yes

High power chip LED with reflector
(0.4W type)

Side view

Package size (mm)	Type	Part No.	Emission color	RoHS
 1.6x1.15(t=0.2)	PICOLED™-side series side view chip LED	Side View SML-R12#8		Yes
		Side View SMLR13 ^[1]		Yes
 1.6x1.15(t=0.55)	EXCELED™ series side view chip LED	Side View SML-A12#8		Yes
		Side View SML-A12		Yes
		NEW SMLA12 ^[1]		Yes
		Side View SMLA13 ^[1]		Yes
		Side View *SMLA13#8 ^[1]		Yes
 3.0x1.6(t=2.0)	Side view chip LED with reflector	Side View SML-110		Yes
		Side View SMLF14 ^[1]		Yes



Side view high power chip LED with reflector

Side View

SMLC14^[1]

WB SP B E P F H Y W D C U2 U V L Yes

Side view high power chip LED with reflector

Side View

*SMLX14^[1]

WB SP B E P F H Y W D C U2 U V L Yes

Side view high power chip LED with reflector

Side View

*SMLXA4WBECW(A)^[1]

WB SP B E P F H Y W D C U2 U V L Yes


Side View

NEW





SMLXA4WBZTW^[1]

WB SP B E P F H Y W D C U2 U V L Yes

Reverse mount available

Package size (mm)	Type	Part No.	Emission color	RoHS
 3.4x1.25(t=1.1)	Reverse mount available chip LED	SML-811 (A)	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML-812	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML-810	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		NEW	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML813 ^[1]	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML812 ^[1]	WB SP B E P F H Y W D C U2 U V L Yes	Yes

With Lens



Package size (mm)	Type	Part No.	Emission color	RoHS
 3.0x1.5(t=2.2)	High power chip LED with lens	NEW CSL02	WB SP B E P F H Y W D C U2 U V L Yes	Yes
 3.2x1.6(t=1.85)	Reverse mount available chip LED with lens	NEW SML-S13	WB SP B E P F H Y W D C U2 U V L Yes	Yes
 4.0x3.4(t=4.55)	High power chip LED with lens	NEW SMLS14 ^[1]	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		NEW SML-J14	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		NEW SML-J15	WB SP B E P F H Y W D C U2 U V L Yes	Yes
 4.9x3.6(t=3.3)	Side view high power chip LED with lens	*SMLJ14 ^[1]	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML-L13	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML-L14	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		NEW SML-L15	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		NEW SMLL15 ^[1]	WB SP B E P F H Y W D C U2 U V L Yes	Yes
*SMLL14 ^[1]	WB SP B E P F H Y W D C U2 U V L Yes	Yes		

Part number with * are under development.

^[1] There is no hyphon(-) in the part number for W,SP,B and E emitting colors.


Dual colortype

Mini-mold

Package size (mm)	Type	Part No.	Emission color	RoHS
 1.0x1.0(t=0.2)	PICOLED™-Duo series dual color ultra-small chip LED	SML-P24MUW	WB SP B E P F H Y W D C U2 U V L Yes	Yes
 1.5x1.3(t=0.6)	Dual color mini-mold Chip LED	SML522BUW ^[1]	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML-522MUW	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML-522MU8W	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML-521MUW	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		SML-522MD8W	WB SP B E P F H Y W D C U2 U V L Yes	Yes
		NEW SML-522MY8W	WB SP B E P F H Y W D C U2 U V L Yes	Yes

SML-521MDW	WB	SP	B	E	P	F	M	Y	W	D	C	U2	U	V	L	Yes
SML-521MYW	WB	SP	B	E	P	F	M	Y	W	D	C	U2	U	V	L	Yes



With reflector

Package size (mm)	Type	Part No.	Emission color	RoHS
 3.0x2.5(t=1.3)	Dual color chip LED with reflector	SML-020MVT	WB SP B E P F M Y W D C U2 U V L	Yes
		SML022BUT ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
		SML-022ML8T	WB SP B E P F M Y W D C U2 U V L	Yes






^[1] There is no hyphon(-) in the part number for W,SP,B and E emitting colors.

Triple colortype



Mini-mold

Package size (mm)	Type	Part No.	Emission color	RoHS
 1.0x1.0(t=0.2)	PICOLED™-RGB series triple color ultra-small chip LED	SMLP34RGB1 ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
		NEW SMLP34RGB2 ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
 1.5x1.0(t=0.2)	PICOLED™-RGB series triple color ultra-small chip LED	SMLP36RGB1 ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
		NEW SMLP36RGB2 ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes

With reflector

Package size (mm)	Type	Part No.	Emission color	RoHS
 1.8x1.6(t=0.65)	GC-RGB (Triple color chip LED with reflector)	*MSL0301RGB ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
 3.5x3.0(t=1.3)	High brightness triple color chip LED with reflector	SML032RGB1T ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
 7.9x5.0(t=1.1)	High brightness triple color chip LED with reflector	SMLW56RGB1W ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
 3.5x2.8(t=0.6)	Triple color chip LED with black reflector	*SMLV36RGB1B ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
 3.5x2.8(t=0.6)	High brightness triple color chip LED with reflector	SMLV56RGB1W ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes

Side view

Package size (mm)	Type	Part No.	Emission color	RoHS
 3.0x1.3(t=0.43)	PICOLED™-RGB-side series side view type triple color chip LED	Side View NEW MSL0201RGB ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes
 6.9x2.2(t=2.15)	Side view type triple color high brightness chip LED	Side View NEW MSL0101RGB ^[1]	WB SP B E P F H Y W D C U2 U V L	Yes

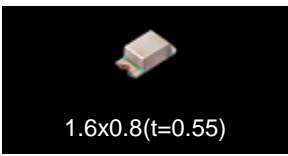
Part number with * are under development.

^[1] There is no hyphon(-) in the part number for W,SP,B and E emitting colors.

Infrared Light Emitting LEDtype

Mini-mold

Package size (mm)	Type	Part No.	Emission color	RoHS
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Infrared Light Emitting LED Mini-mold Type

*SML-D14RW WB SP B E P F H Y W D C U2 U V L Yes

*SML-D14R2W WB SP B E P F H Y W D C U2 U V L Yes

With reflector

Package size (mm)	Type	Part No.	Emission color	RoHS
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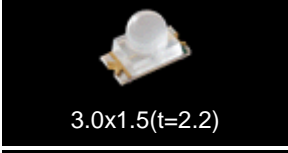


Infrared Light Emitting Small LED With Reflector

SML-M13RT WB SP B E P F H Y W D C U2 U V L Yes

With Lens

Package size (mm)	Type	Part No.	Emission color	RoHS
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Infrared Light Emitting LED Surface mount With Lens

SCM-013RT WB SP B E P F H Y W D C U2 U V L Yes

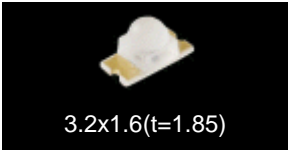


Infrared Light Emitting LED Surface mount With Lens

SML-J14RT WB SP B E P F H Y W D C U2 U V L Yes

With reflector(Reverse mount available)

Package size (mm)	Type	Part No.	Emission color	RoHS
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Infrared Light Emitting LED Reverse mount With Lens

SML-S13RT WB SP B E P F H Y W D C U2 U V L Yes

With reflector(Side view)

Package size (mm)	Type	Part No.	Emission color	RoHS
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Infrared Light Emitting Side View LED With Lens

*SML-L14RT WB SP B E P F H Y W D C U2 U V L Yes

Part number with * are under development