

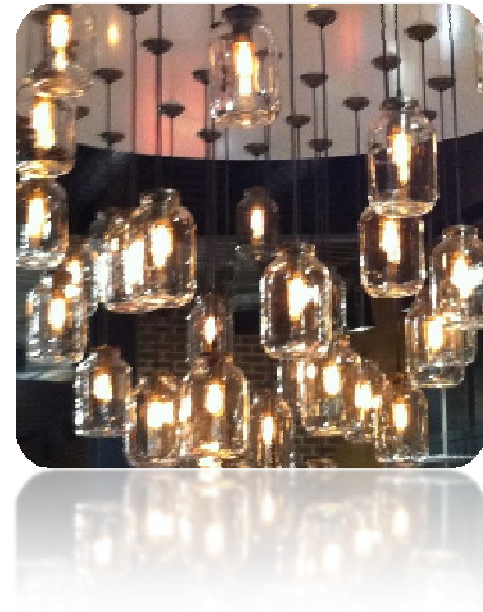


SEOUL SEMICONDUCTOR

SSC Filament LED Introduction

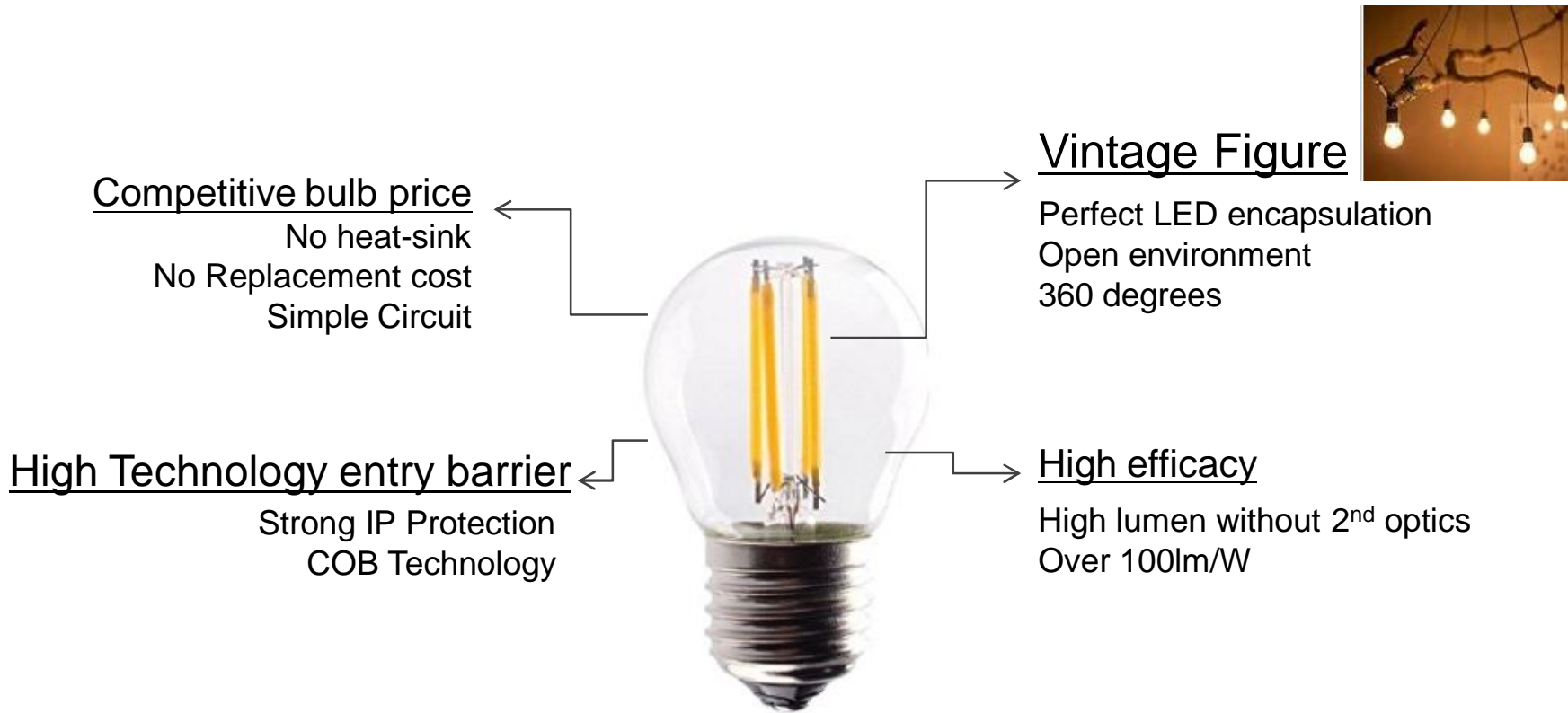
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1. Features of Filament LED

Similar to filaments of an old incandescent bulb,
using very narrow strips containing the LED



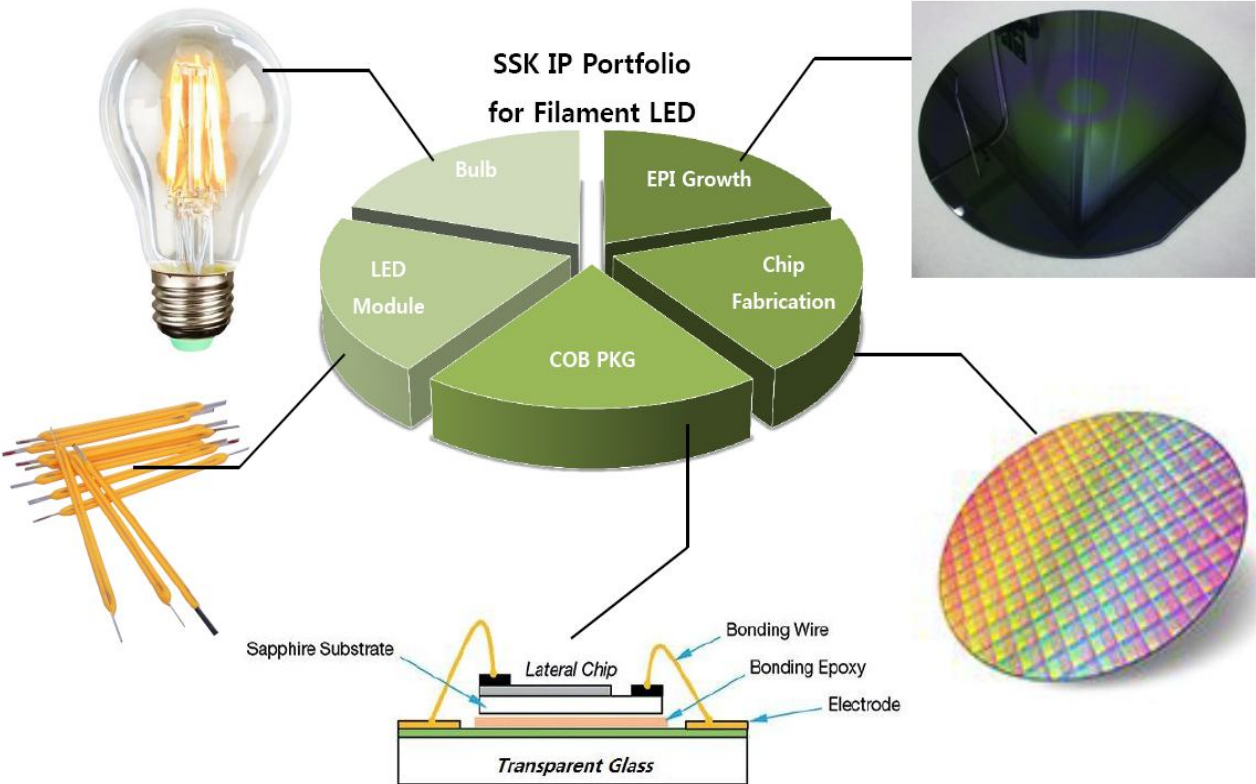
2. Features of SSC Filament LED

1. Secured IP Portfolio

2. Customization

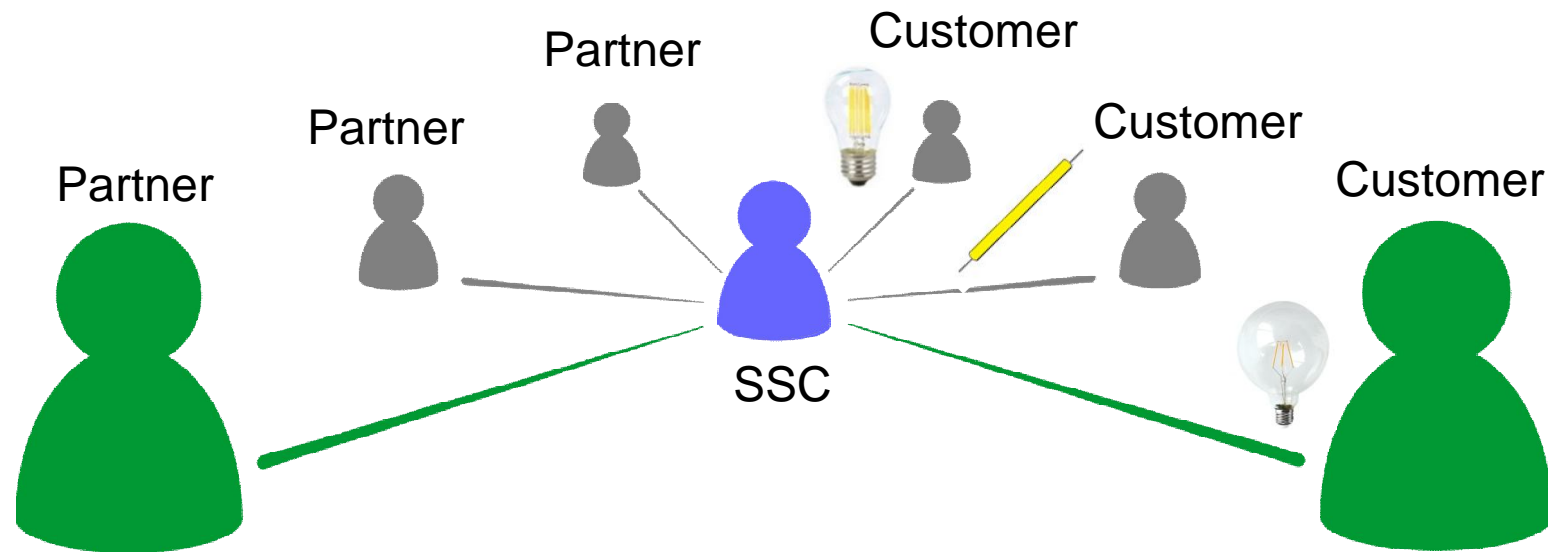
2.1 Secured IP portfolio

IP portfolio for Filament LED across the technology.







2.1 Speedy customization

Provide filament solutions optimized for customers



3. Product Line-up

Part no.	SFW8C31A		SFW8C32A			SFW8C52A	
Appearance	 <i>38.0mm x 1.8mm</i>		 <i>38.0mm x 1.8mm</i>			 <i>50.0mm x 1.8mm</i>	
Current [mA]	10		15			15	
VF [V] min-max	61 – 67	65 – 71**	65 – 71**	65 – 71**	83 – 89	83 – 89	
Flux [lm]	115	105	150	190	210	210	
Application							
CCT / CRI	2700K / Min. 80						

** Compatible with both Linear type and AC/DC converter

3. SFW8C31A



Advantages & Benefits

- Chip-on-Board Package
- Wide beam angle into small footprint
- High color quality with CRI Min.80

Application

- Retrofits and fixtures
: B10/C35 Candle-300lm, 500lm, G20, A19/A60-450lm

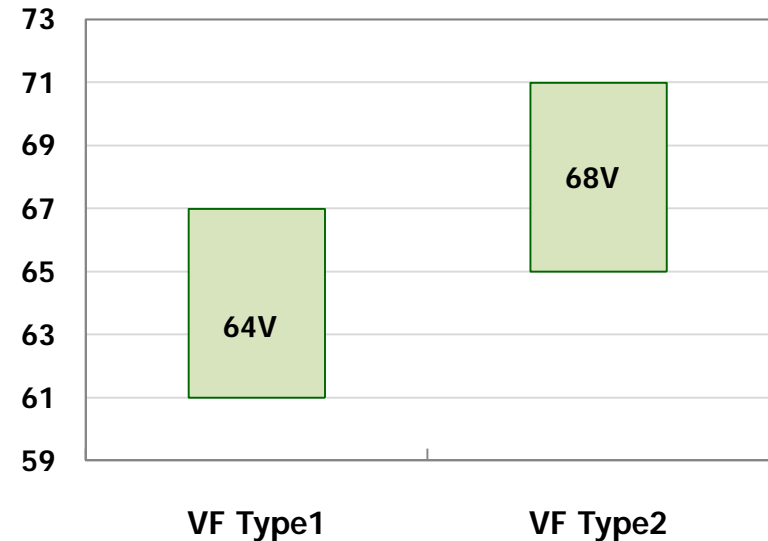
* Electrical Optical Characteristics

@ Tj = 25 °C

Part no.	SFW8C31A-xx			
CCT	2700K		2200K	
Current [mA]	10			
Power [W]	0.6	0.7	0.6	0.7
Typ. Flux [lm]	115	105	103.5	94.5
Typ. VF [V]	64	68	64	68
Efficacy [lm/W]	180	154	162	139
CRI	Min.80			

* VF Coverage

@ Tj = 25 °C



3. SFW8C32A



Advantages & Benefits

- Chip-on-Board Package
- Wide beam angle into small footprint
- High color quality with CRI Min.80

Application

- Retrofits and fixtures
: A19/A60-450lm, 800lm

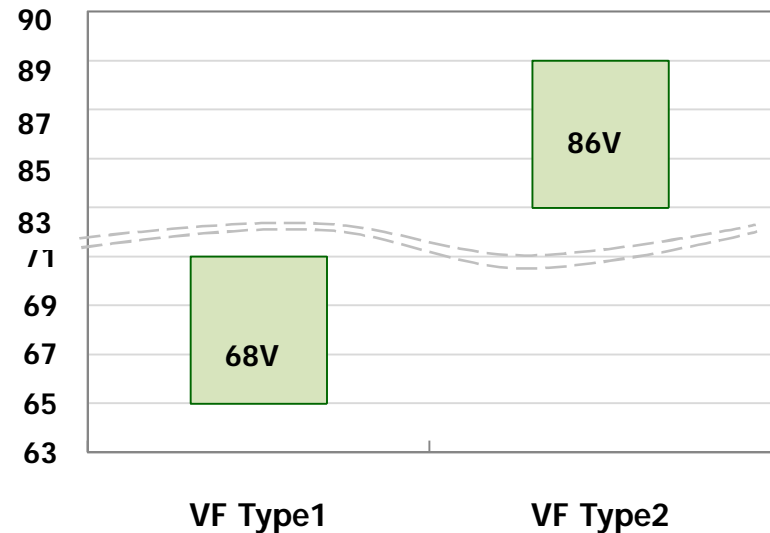
* Electrical Optical Characteristics

@ Tj = 25 °C

Part no.	SFW8C32A-xx					
CCT	2700K			2200K		
Current [mA]	15					
Power [W]	1.0	1.0	1.3	1.0	1.0	1.3
Typ. Flux [lm]	150	190	210	135	171	189
Typ. VF [V]	68	68	86	68	68	86
Efficacy [lm/W]	147	186	163	132	168	147
CRI	Min.80					

* VF Coverage

@ Tj = 25 °C



3. SFW8C52A



Advantages & Benefits

- Chip-on-Board Package
- Wide beam angle into small footprint
- High color quality with CRI Min.80

Application

- Retrofits and fixtures
: ST19/64, G30, G40, T6, A19

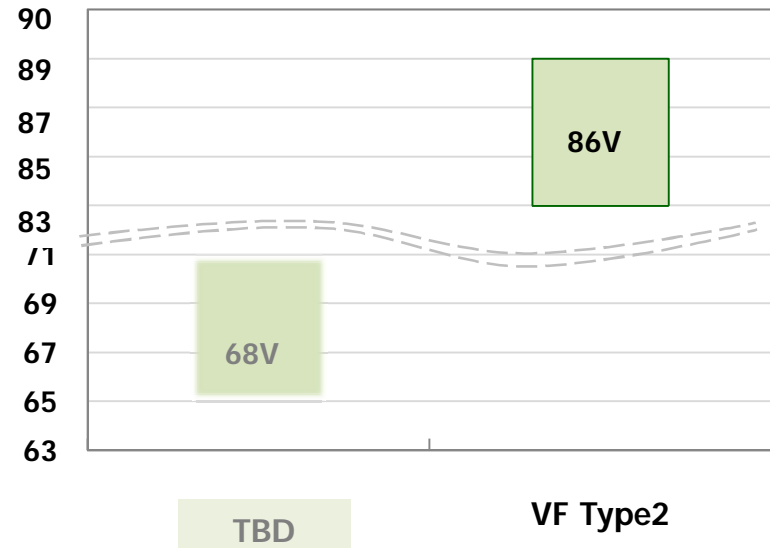
* Electrical Optical Characteristics

@ Tj = 25 °C

Part no.	SFW8C52A-xx	
CCT	2700K	2200K
Current [mA]	15	
Power [W]	1.3	1.3
Typ. Flux [lm]	210	189
Typ. VF [V]	86	86
Efficacy [lm/W]	163	147
CRI	Min.80	

* VF Coverage

@ Tj = 25 °C



3. Description of part number code

➤ Description of Part Number Code

Part Number Code	Description	Part Number	Value
X ₁	Company	S	SSC
X ₂	Package type	F	Filament
X ₃ X ₄	Color Specification	W8	80 CRI
X ₅ X ₆	Package series	C3	Ceramic substrate 38mm
		C5	Ceramic substrate 50mm
X ₇	Characteristic code	1	
		2	
X ₈	Rev.	A	
- X ₉ X ₁₀	Internal code		

- 1) SFW8C31A – xx : 80CRI / 38mm Ceramic substrate / under 1 watt → 10mA
- 2) SFW8C32A – xx : 80CRI / 38mm Ceramic substrate / over 1 watt → 15mA
- 3) SFW8C52A – xx : 80CRI / 50mm Ceramic substrate / over 1 watt → 15mA

3. Roadmap

@ $T_j=25^\circ\text{C}$, 2700K, 80CRI

* This roadmap criteria is the end of quarter.

