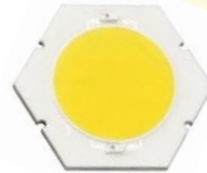




MEGA-ZENI



KAKU-ZENI



GIGA-ZENI



TIGER-ZENI



MINI-ZENI



PETIT-ZENI



PICO-ZENI

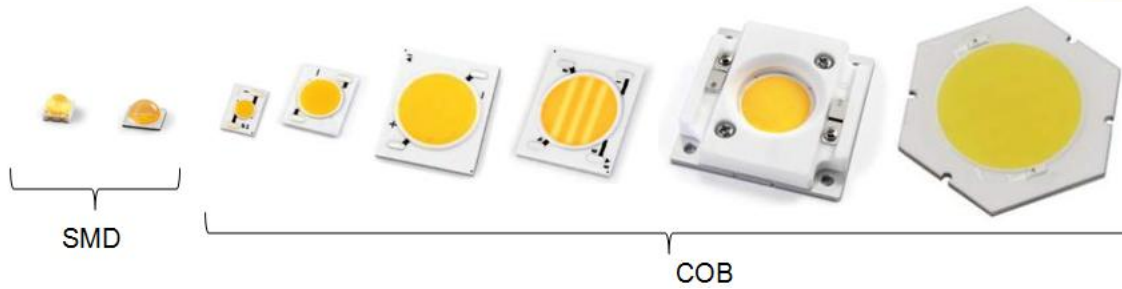


5630 PKG

SHARP ZENIGATA

Your Preferred Choice of LED
For Dazzling Color Rendering & High Reliability

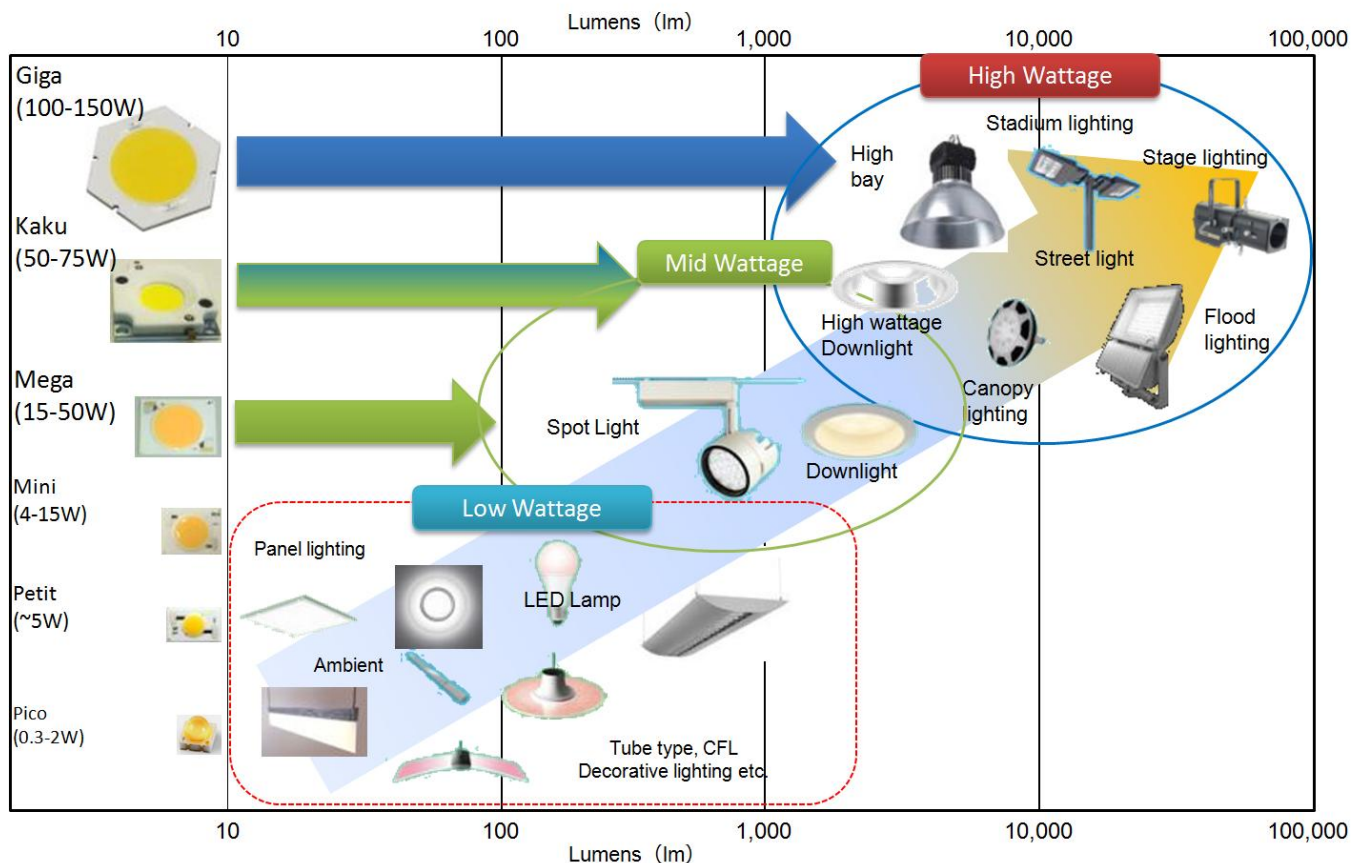
PRODUCT INTRODUCTION



<Key Features>

- ❖ Ceramic substrate ensures better heat dissipation and low thermal resistance for efficient thermal management.
- ❖ Uniform, high quality illumination with typical viewing angle of 120°.
- ❖ Chip-on-board LED with only two terminal connections for easy installation.
- ❖ Optical design is simplified and is much easier than having multiple light sources.
- ❖ No multiple shadows are formed and is easier to focus the entire design on the light-emitting surface (LES) of an LED array.
- ❖ Long lifetime : > 70,000 hours depending on operating condition (**3rd Parties LM80 Certificate**)

Sharp Zenigata LEDs - Existing Line-up (by Application)



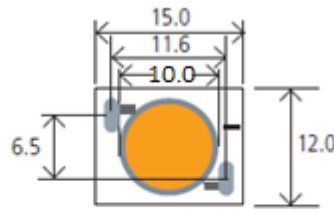
PRODUCT INFORMATION



< Mini-ZENIGATA LED Series >
 < 3W ~ 21W Class >
 < 340lm~1750lm level>



Top view



Side view



Applications Include:

- Indoor and Outdoor Lighting
- Light Bulb(MR16,Gu10)
- Downlight
- Spotlights
- Reading Lamps
- Sign and Symbol Luminaires
- Mobile Lighting
- Pendant Lights
- Replacement Lamp (A19/PAR)

Mini-ZENI 3W – 6W ~9V low Voltage version for MR16

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BMC C0D	GW6BMC27C0D	2700K	416	308	6.03	3.88	10.4	9.7	580	400	82	6.0
	GW6BMC30C0D	3000K	428	317								
	GW6BMC40C0D	4000K	463	343								
	GW6BMC50C0D	5000K	463	343								

Mini-ZENI 4W – 7W ~36V high Voltage version for GU10

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BLQ C0C	GW6BLQ27C0C	2700K	594	360	7.4	4	42	36.8	175	100	82	6.0
	GW6BLQ30C0C	3000K	632	382								
	GW6BLQ40C0C	4000K	668	405								
	GW6BLQ50C0C	5000K	676	409								

Mini-ZENI 6W – 10W ~36V high Voltage version for GU10

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BMG HED	GW6BMG27HED	2700K	815	562	10.2	5.57	39.6	34.8	260	160	82	5.2
	GW6BMG30HED	3000K	855	590								
	GW6BMG40HED	4000K	915	630								
	GW6BMG50HED	5000K	945	653								
BGG HED	GW6BGG27HED	2700K	675	465	10.2	5.57	39.6	34.8	260	160	93	5.2
	GW6BGG30HED	3000K	710	490							92	
	GW6BGG40HED	4000K	730	505							90	
	GW6BGG50HED	5000K	755	520								

PRODUCT INFORMATION

< Mini-ZENIGATA LED Series >
 < 3W ~ 21W Class >
 < 340lm~1750lm level>

Applications Include:

- Indoor and Outdoor Lighting
- Light Bulb(MR16,Gu10)
- Downlight
- Spotlights

- Reading Lamps
- Sign and Symbol Luminaires
- Mobile Lighting
- Pendant Lights
- Replacement Lamp (A19/PAR)

Mini-ZENI 7W – 12W (Low Vf model)

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BME HED	GW6BME27HED	2700K	1015	700	12.8	6.96	16.4	14.5	780	480	82	4.5
	GW6BME30HED	3000K	1060	730								
	GW6BME40HED	4000K	1145	790								
	GW6BME50HED	5000K	1175	810								
BGE HED	GW6BGE27HED	2700K	840	580	12.8	6.96	16.4	14.5	780	480	93	4.5
	GW6BGE30HED	3000K	885	610							92	
	GW6BGE40HED	4000K	915	630							90	
	GW6BGE50HED	5000K	935	645							90	

Mini-ZENI 9W – 15W

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BMW HED	GW6BMW27HED	2700K	1195	825	15.4	8.35	39.6	34.8	390	240	82	3.9
	GW6BMW30HED	3000K	1260	870								
	GW6BMW40HED	4000K	1360	937								
	GW6BMW50HED	5000K	1390	959								
BGW HED	GW6BGW27HED	2700K	995	685	15.4	8.35	39.6	34.8	390	240	93	3.9
	GW6BGW30HED	3000K	1045	720							92	
	GW6BGW40HED	4000K	1080	745							90	
	GW6BGW50HED	5000K	1115	770							90	

Mini-ZENI 11W – 17W

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BMJ HED	GW6BMJ27HED	2700K	1425	1095	17.8	11.14	19.8	17.4	900	640	82	3.1
	GW6BMJ30HED	3000K	1495	1150								
	GW6BMJ40HED	4000K	1610	1240								
	GW6BMJ50HED	5000K	1660	1275								
BGJ HED	GW6BGJ27HED	2700K	1150	885	17.8	11.14	19.8	17.4	900	640	93	3.1
	GW6BGJ30HED	3000K	1210	930							92	
	GW6BGJ40HED	4000K	1255	965							90	
	GW6BGJ50HED	5000K	1295	995							90	

PRODUCT INFORMATION

< Mini-ZENIGATA LED Series >
 < 3W ~ 21W Class >
 < 340lm~1750lm level>

Applications Include:

- Indoor and Outdoor Lighting
 - Light Bulb(MR16,Gu10)
 - Downlight
 - Spotlights
- Reading Lamps
 - Sign and Symbol Luminaires
 - Mobile Lighting
 - Pendant Lights
 - Replacement Lamp (A19/PAR)

Mini-ZENI 11W – 20W

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BMR HED	GW6BMR27HED	2700K	1560	1075	20.5	11.14	39.6	34.8	520	320	82	3.1
	GW6BMR30HED	3000K	1655	1140								
	GW6BMR40HED	4000K	1785	1230								
	GW6BMR50HED	5000K	1810	1250								
BGR HED	GW6BGR27HED	2700K	1285	885	20.5	11.14	39.6	34.8	520	320	93	3.1
	GW6BGR30HED	3000K	1350	930							92	
	GW6BGR40HED	4000K	1400	965							90	
	GW6BGR50HED	5000K	1445	995								

Mini-ZENI 13W –25W

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BMS HED	GW6BMS27HED	2700K	1970	1315	25.7	13.92	39.6	34.8	650	400	82	2.7
	GW6BMS30HED	3000K	2095	1395								
	GW6BMS40HED	4000K	2245	1495								
	GW6BMS50HED	5000K	2295	1530								
BGS HED	GW6BGS27HED	2700K	1640	1095	25.7	13.92	39.6	34.8	650	400	93	2.7
	GW6BGS30HED	3000K	1740	1160							92	
	GW6BGS40HED	4000K	1810	1205							90	
	GW6BGS50HED	5000K	1845	1230								

Mini-ZENI 18W – 21W

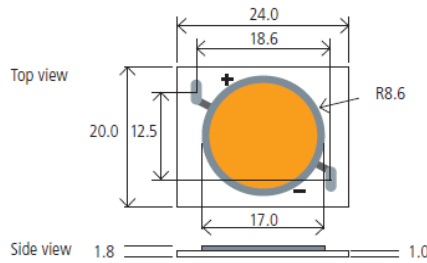
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Type	Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
			Max	Typ	Max	Typ	Max	Typ	Max	Typ		
BMR JED	GW6BMR27JED	2700K	1771	1610	21	18	38.5	35.5	0.55	0.5	82	3.1
	GW6BMR30JED	3000K	1870	1700								
	GW6BMR40JED	4000K	1991	1810								
	GW6BMR50JED	5000K	2002	1820								
BGR JED	GW6BGR27JED	2700K	1469	1360	21	18	38.5	35.5	0.55	0.5	93	3.1
	GW6BGR30JED	3000K	1566	1450							92	
	GW6BGR40JED	4000K	1672	1550							90	
	GW6BGR50JED	5000K	1750	1620								

PRODUCT INFORMATION

< Mega-ZENIGATA LED Series >

< 14W - 62W Class >
< 1400~5820lm level >



Unit = mm

Applications Include:

- High-Intensity Lighting
- Recessed Can Lights
- Architectural Illumination
- Down Lighting
- Spotlights
- Area and Object Lighting
- Replacement Lamp (PAR)

Mega-ZENI ****XFC series**** 14W – 27W

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ		
DMA	GW6DMA27XFC	2700K	2260	1410	27	14.8	38.5	35	700	400	82	2.8
	GW6DMA30XFC	3000K	2400	1500								
	GW6DMA40XFC	4000K	2580	1600								
	GW6DMA50XFC	5000K	2576	1610								
DGA	GW6DGA27XFC	2700K	1890	1180	27	14.8	38.5	35	700	400	93	2.8
	GW6DGA30XFC	3000K	1990	1240							92	
	GW6DGA40XFC	4000K	2080	1300							90	
	GW6DGA50XFC	5000K	2120	1320								

Mega-ZENI ****XFC series**** 24W – 32W

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ		
DMC	GW6DMC27XFC	2700K	3240	2745	32.3	24.5	38.5	35	840	700	82	1.9
	GW6DMC30XFC	3000K	3420	2900								
	GW6DMC40XFC	4000K	3660	3100								
	GW6DMC50XFC	5000K	3670	3110								
DGC	GW6DGC27XFC	2700K	2690	2280	32.3	24.5	38.5	35	840	700	93	1.9
	GW6DGC30XFC	3000K	2850	2415							92	
	GW6DGC40XFC	4000K	2980	2525							90	
	GW6DGC50XFC	5000K	3030	2570								

Mega-ZENI ****XFC series**** 33W – 46W

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ		
DMD	GW6DMD27XFC	2700K	4315	3595	46.2	33.25	38.5	35	1200	950	82	1.3
	GW6DMD30XFC	3000K	4560	3800								
	GW6DMD40XFC	4000K	4870	4060								
	GW6DMD50XFC	5000K	4900	4085								
DGD	GW6DGD27XFC	2700K	3635	3030	46.2	33.25	38.5	35	1200	950	93	1.3
	GW6DGD30XFC	3000K	3845	3205							92	
	GW6DGD40XFC	4000K	4025	3355							90	
	GW6DGD50XFC	5000K	4080	3400								

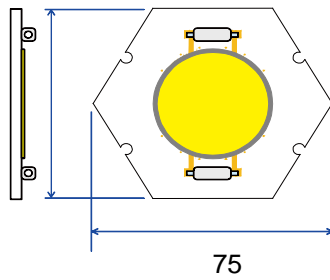
Mega-ZENI ****XFC series**** 45W – 61W

< Testing Condition: Tj = 90°C >

Type	Model No.	Color Temp (CCT)	Luminous flux (Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ		
DME	GW6DME27XFC	2700K	5455	4545	61.8	44.37	51.5	46.7	1200	950	82	1.0
	GW6DME30XFC	3000K	5760	4800								
	GW6DME40XFC	4000K	6155	5130								
	GW6DME50XFC	5000K	6185	5155								
DGE	GW6DGE27XFC	2700K	4755	3965	61.8	44.37	51.5	47.5	1200	950	93	1.0
	GW6DGE30XFC	3000K	5015	4180							92	
	GW6DGE40XFC	4000K	5255	4380							90	
	GW6DGE50XFC	5000K	5320	4435								

PRODUCT INFORMATION

< Giga – ZENIGATA LED Series >
 < 100W~140W Class > < 10,500~13,000lm level >



- Applications Include:**
- Spot/Downlight
 - High/Low-Bay
 - Street lighting

< Testing Condition: Tj = 90°C >

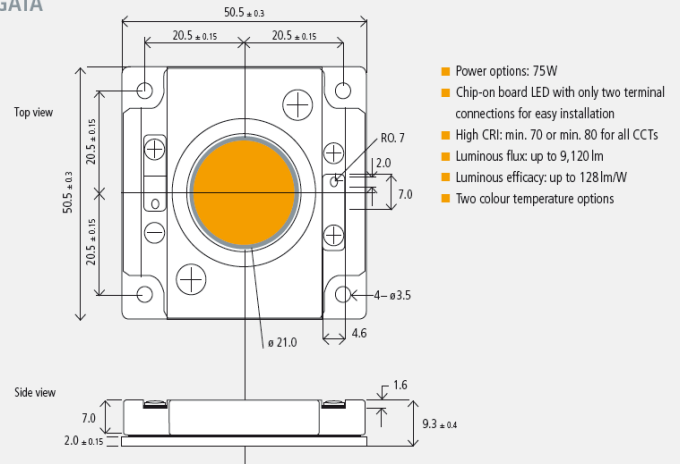
Model No.	Color Temp (CCT)	Luminous flux (Hot Lumens)		Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
		Max	Typ	Max	Typ	Max	Typ	Max	Typ		
GW7GMP30FGC	3000K	12600	10500	140	98	153	140	910	700	82	0.37
GW7GMP50FGC	5000K	14160	11800							70	
GW7GAP30FGC	3000K	15600	13000								

<Kaku – ZENIGATA LED Series >

Model No.	Colour Temp (CCT)	Luminous flux (Hot Lumens)	
		Max	Typ
GW7PMT30RGC	3000K	7260	5430
GW7PMT40RGC	4000K	8000	5980
GW7PMT50RGC	5000K	8060	6030
GW7PAT50RGC	5000K	8830	6610

Power (Watts)		Forward Voltage, Vf (V)		Forward Current, If (mA)		CRI/RA	Thermal Resistance (Rth)(°C/W)
Max	Typ	Max	Typ	Max	Typ		
72	49	103.5	98	0.7	0.5	82 70	0.9

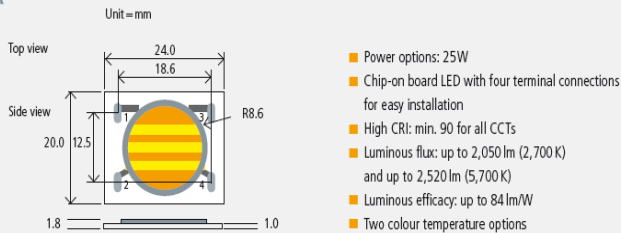
Kaku ZENIGATA



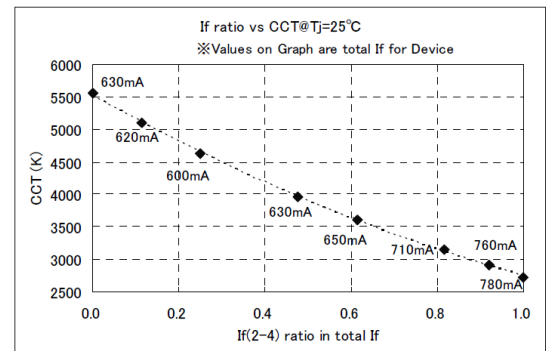
< Tiger-ZENIGATA - Tuneable White LED Series >

< 25W Class >

Tiger ZENIGATA



****2700K to 5700K****



<Tiger-ZENIGATA – A New and Unique LED>

< Testing Condition: Tj = 90°C >

SHARP's first ever single point light source with variable colour temperature, Tiger ZENIGATA, is targeted at the spotlight and downlight market.

- ❖ Variable colour temperature between 2700K & 5700K
- ❖ Luminous flux : 2000lm (approximate) ; CRI/RA: 94 (typ)

SHARP

Please contact our friendly Sales Representatives for more information:

SHARP ELECTRONICS (S) PTE LTD [SESL]

491B, River Valley Road, #09-02/03/04,
Valley Point, Singapore 248373

Email : led@sesl-sharp-world.com

Please visit : www.sesl-sharp.com

< SINGAPORE >

Tel : (+ 65) 6304-2500

Fax : (+ 65) 6304-2599

< AUSTRALIA & NEW ZEALAND >

Tel: (+ 61)-2-9830-4812

< INDIA >

Tel: (+ 91)-80-2211-8307/08

Tel: (+ 91)-20-6400-8624

Tel: (+ 91)-11-4351-3601

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Tel: (+ 66)-2638-3661

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