

Sharp – ERP Cross Reference



ZENIGATA
CHIP ON BOARD

SHARP

		Current (mA)																		
		200	250	280	285	300	350	400	450	460	500	550	620	700	800	900	950	1000	1050	1200
Mini Zenigata	BMG**HED	✓	✓																	
	BGG**HED	✓	✓																	
	BME**HED													✓						
	BGE**HED													✓						
	BMW**HED		✓	✓	✓	✓	✓													
	BGW**HED		✓	✓	✓	✓	✓													
	BMJ**HED														✓					
	BGJ**HED														✓					
	BMR**HED						✓	✓	✓	✓	✓									
	BGR**HED						✓	✓	✓	✓	✓									
	BMS**HED							✓	✓	✓	✓	✓	✓	✓						
	BGS**HED							✓	✓	✓	✓	✓	✓	✓						
	Mega Zenigata	DMA**NFC							✓	✓	✓	✓	✓	✓	✓					
DGA**NFC								✓	✓	✓	✓	✓	✓	✓						
DMC**NFC														✓	✓	✓		✓	✓	
DGC**NFC														✓	✓	✓		✓	✓	
DMD**NFC																		✓	✓	✓
DGD**NFC																		✓	✓	✓
DME**NFC																		✓		
DGE**NFC																		✓		

Sharp – ERP Cross Reference

Sharp COBs				ERP LED Drivers									
Driver Output Current (mA)	Min Vf (Vdc)	Typ Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers			Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)

Mini-Zenigata : BMG**HED, BGG**HED
160mA (typical) 260mA (max)

200mA	31.6	36	39.6	EBR010U-0200-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	200	8.4	30	37.8	42
				EBR010E-0200-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	200	8.4	30	37.8	42
250mA	31.6	36	39.6	EBR010U-0250-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
				EBR010E-0250-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
				ESS010W-0250-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	250	10.5	24	37.8	42

Mini-Zenigata : BME**HED, BGE**HED
480mA (typical) 780mA (max)

	13.2	15	16.5										
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Mini-Zenigata : BMW**HED, BGW**HED
240mA (typical) 390mA (max)

250	31.6	36	39.6	EBR010U-0250-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
				EBR010E-0250-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
				ESS010W-0250-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	250	10.5	24	37.8	42
280	31.6	36	39.6	ESM020W-0280-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	280	11.8	24	37.8	42
285	31.6	36	39.6	EBR015U-0285-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	285	12	30	37.8	42
				EBR015E-0285-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	285	12	30	37.8	42
300	31.6	36	39.6	EBR015U-0300-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
				EBR015E-0300-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
				ESS015W-0300-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	300	12.6	24	37.8	42
350	31.6	36	39.6	EBR015U-0350-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
				EBR015E-0350-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
				ERP020W-0350-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	14.7	31.5	39	42
				ESM020W-0350-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
				ESS015W-0350-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42

Mini-Zenigata : BMJ**HED, BGJ**HED
640mA (typical) 900mA (max)

700	15.8	18	19.8	ELM030W-0700-24	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	700	16.8	14	21.6	24
				ESS020W-0700-24	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	16.8	14	22	24

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Sharp COBs				ERP LED Drivers								
Driver Output Current (mA)	Min Vf (Vdc)	Typ Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
Mini-Zenigata : BMR**HED, BGR**HED 320mA (typical) 520mA (max)												
350	31.6	36	39.5	EBR015U-0350-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
				EBR015E-0350-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
				ERP020W-0350-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	14.7	31.5	39	42
				ESM020W-0350-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
				ESS015W-0350-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
400	31.6	36	39.5	EBR020U-0400-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
				EBR020E-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
				ESS020W-0400-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	16.8	24	37.8	42
450	31.6	36	39.5	ERP020W-0450-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42
				ESS020W-0450-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42
460	31.6	36	39.5	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42
500	31.6	36	39.5	EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21	30	37.8	42
				EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21	30	37.8	42
				ESM030W-0500-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21	24	37.8	42
				ESS030W-0500-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21	24	37.8	42

Mini-Zenigata : BMSHED, BGS**HED
400mA (typical) 650mA (max)**

400	31.6	36	39.6	EBR020U-0400-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
				EBR020E-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
				ESS020W-0400-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	16.8	24	37.8	42
450	31.6	36	39.6	ERP020W-0450-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42
				ESS020W-0450-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42
460	31.6	36	39.6	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42
500	31.6	36	39.6	EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21	30	37.8	42
				EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21	30	37.8	42
				ESM030W-0500-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21	24	37.8	42
				ESS030W-0500-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21	24	37.8	42
550	31.6	36	39.6	ERP030W-0550-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	550	23.1	31.5	39	42
				ESM030W-0550-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
				ESS030W-0550-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
620	31.6	36	39.6	ESS030W-0620-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	620	26	24	37.8	42

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Driver Output Current (mA)	Min Vf (Vdc)	Typ Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)

Mega-Zenigata : DMA**NFC, DGA**NFC
400mA (typical) 700mA (max)

400	34	37	40	EBR020U-0400-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
				EBR020E-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
				ESS020W-0400-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	16.8	24	37.8	42
450	34	37	40	ERP020W-0450-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42
				ESS020W-0450-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42
460	34	37	40	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42
				EBR020E-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21	30	37.8	42
				ESM030W-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21	30	37.8	42
500	34	37	40	ESM030W-0500-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21	24	37.8	42
				ESS030W-0500-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21	24	37.8	42
				ERP030W-0550-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	550	23.1	31.5	39	42
550	34	37	40	ESM030W-0550-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
				ESS030W-0550-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
				ESS030W-0620-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	620	26	24	37.8	42
620	34	37	40	ERP030W-0700-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	29.4	31.5	39	42
				ESM030W-0700-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
				ESS030W-0700-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42

Mega-Zenigata : DMC**NFC, DGC**NFC
700mA (typical) 1050mA (max)

700	34	37	40	ERP030W-0700-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	29.4	31.5	39	42
				ESM030W-0700-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
				ESS030W-0700-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
800	34	37	40	ERP040W-0800-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	800	33.6	31.5	39	42
				ESM040W-0800-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42
				ESP040W-0800-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42
850	34	37	40	ERP040W-0850-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	850	35.7	31.5	39	42
				ERP040W-0850-45.5	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	850	38.7	34	42.3	45.5
				ESM040W-0850-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42
900	34	37	40	ESP040W-0850-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42
				ERP040W-0900-42	120-277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	37.8	31.5	39	42
				ESM040W-0900-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42
1000	34	37	40	ESP040W-0900-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42
				ELM050W-1000-48	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1000	48	24	43.2	48
				ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42
1050	34	37	40	ESM050W-1050-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
				ESP050W-1050-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42

Mega-Zenigata : DMD**NFC, DGD**NFC
950mA (typical) 1300mA (max)

1000	34	37	40	ELM050W-1000-48	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1000	48	24	43.2	48
				ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42
				ESM050W-1050-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
1200	34	37	40	ESP050W-1050-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
				ERM050W-1200-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1200	50.4	32	37.8	42
				ESM050W-1200-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42
1200	34	37	40	ESP050W-1200-42	120-277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42

Mega-Zenigata : DME**NFC, DGE**NFC
950mA (typical) 1500mA (max)

45	50	55										
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