

### Features

- Glass Passivated Junction Protection for Superior Blocking Voltage and Stability
- High Surge Ratings
- Low Forward Voltage Drop (L type)

### Applications

- Solid State Relays
- Power Modules
- Lighting Equipment
- Motor Control Equipment
- Welding Modules

### L Type - Electrical Ratings

Part Number	Description	$I_{T(AV)}^{①}$	$V_{TM} @ I_T^{②}$		$V_{DRM} / V_{RRM}^{③}$ (V)	$I_{GT}^{②}$ (mA)	$I_h$ (mA)	$I_{TSM}$ (10ms)	Min. dv/dt (V/us)
CCS42L-04/06	SCR, Die, 50A	50	1.25	150	400 - 600	150	220	1500	500
CCS48L-04/06	SCR, Die, 60A	60	1.25	180	400 - 600	150	220	2000	500
CCS56L-04/06	SCR, Die, 80A	80	1.25	240	400 - 600	150	220	2500	500
CCS68L-04/06	SCR, Die, 130A	130	1.25	410	400 - 600	150	350	4000	500

### P Type - Electrical Ratings

Part Number	Description	$I_{T(AV)}^{①}$	$V_{TM} @ I_T^{②}$		$V_{DRM} / V_{RRM}^{③}$ (V)	$I_{GT}^{②}$ (mA)	$I_h$ (mA)	$I_{TSM}$ (10ms)	Min. dv/dt (V/us)
CCS24H-08/16	SCR, Die, 25A	25	1.60	35	800 - 1600	100	220	300	1000
CCS34H-08/16	SCR, Die, 50A	50	1.60	75	800 - 1600	100	220	500	1000
CCS38H-08/16	SCR, Die, 60A	60	1.60	90	800 - 1600	100	220	600	1000
CCS42H-08/16	SCR, Die, 80A	80	1.20	80	800 - 1600	100	220	1000	1000
CCS48H-08/16	SCR, Die, 85A	85	1.20	95	800 - 1600	100	220	1150	1000
CCS50H-08/16	SCR, Die, 95A	95	1.20	110	800 - 1600	100	220	1250	1000
CCS56H-08/16	SCR, Die, 130A	130	1.20	165	800 - 1600	100	220	1800	1000
CCS68H-08/16	SCR, Die, 175A	175	1.20	250	800 - 1600	150	350	3200	1000

①  $T_j = 130^\circ\text{C}$ ,  $T_c = 80^\circ\text{C}$ . Rated values depend on assembly materials and conditions. Assemblies must be void-free and have sufficient heat sinking to achieve maximum ratings.

②  $25^\circ\text{C}$

③ Part number suffix, 04=400V, 06=600V (L Type Only)

④ Part number suffix, 08=800V, 10=1000V, 12=1200V, 16=1600V (H Type Only)

### General Note:

Metallization - CR:Ni:Ag

Aluminum Metallization Available - Contact Factory

### Part Numbering

Examples:

Series	Voltage
CCS34L	-06 = 600V
CCS56H	-16 = 1600V

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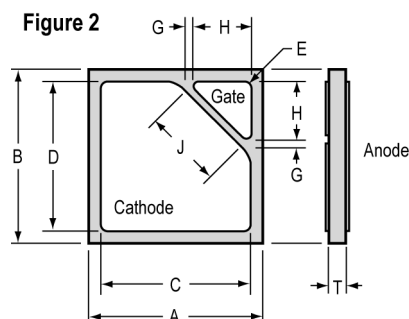
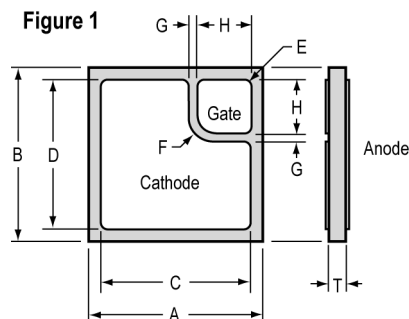
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**Dimensions**



**Dimensions in inches**

Series Type	A	B	C	D	E	F	G	H	J	Thickness	
CCS42L	0.330	0.330	0.300	0.300	0.015	-	0.019	0.079	0.108	0.010	Fig. 2
CCS48L	0.374	0.374	0.344	0.344	0.015	-	0.019	0.079	0.108	0.010	Fig. 2
CCS56L	0.478	0.478	0.422	0.422	0.015	-	0.042	0.098	0.121	0.010	Fig. 2
CCS68L	0.595	0.595	0.555	0.555	0.020	-	0.042	0.098	0.121	0.010	Fig. 2
CCS24H	0.160	0.160	0.130	0.130	0.012	0.020	0.015	0.040	-	0.014	Fig. 1
CCS34H	0.230	0.230	0.190	0.190	0.015	0.015	0.014	0.040	-	0.014	Fig. 1
CCS38H	0.280	0.280	0.250	0.250	0.015	-	0.019	0.079	0.108	0.014	Fig. 1
CCS42H	0.330	0.330	0.300	0.300	0.015	-	0.019	0.079	0.108	0.014	Fig. 2
CCS48H	0.374	0.374	0.344	0.344	0.015	-	0.019	0.079	0.108	0.014	Fig. 2
CCS50H	0.400	0.400	0.370	0.370	0.015	-	0.019	0.079	0.108	0.014	Fig. 2
CCS56H	0.478	0.478	0.422	0.422	0.015	-	0.042	0.098	0.121	0.014	Fig. 2
CCS68H	0.595	0.595	0.555	0.555	0.020	-	0.042	0.098	0.121	0.014	Fig. 2

**Dimensions in mm**

Series Type	A	B	C	D	E	F	G	H	J	Thickness	
CCS42L	8.38	8.38	7.62	7.62	0.38	-	0.48	2.01	2.74	0.25	Fig. 2
CCS48L	9.50	9.50	8.74	8.74	0.38	-	0.48	2.01	2.74	0.25	Fig. 2
CCS56L	12.14	12.14	10.72	10.72	0.38	-	1.07	2.49	3.07	0.25	Fig. 2
CCS68L	15.11	15.11	14.10	14.10	0.51	-	1.07	2.49	3.07	0.25	Fig. 2
CCS24H	4.06	4.06	3.30	3.30	0.30	0.51	0.37	1.00	-	0.35	Fig. 1
CCS34H	5.84	5.84	4.83	4.83	0.38	0.38	0.36	1.00	-	0.35	Fig. 1
CCS38H	7.11	7.11	6.35	6.35	0.38	-	0.48	2.01	2.74	0.35	Fig. 1
CCS42H	8.38	8.38	7.62	7.62	0.38	-	0.48	2.01	2.74	0.35	Fig. 2
CCS48H	9.50	9.50	8.74	8.74	0.38	-	0.48	2.01	2.74	0.35	Fig. 2
CCS50H	10.16	10.16	9.40	9.40	0.38	-	0.48	2.01	2.74	0.35	Fig. 2
CCS56H	12.14	12.14	10.72	10.72	0.38	-	1.07	2.49	3.07	0.35	Fig. 2
CCS68H	15.11	15.11	14.10	14.10	0.51	-	1.07	2.49	3.07	0.35	Fig. 2

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