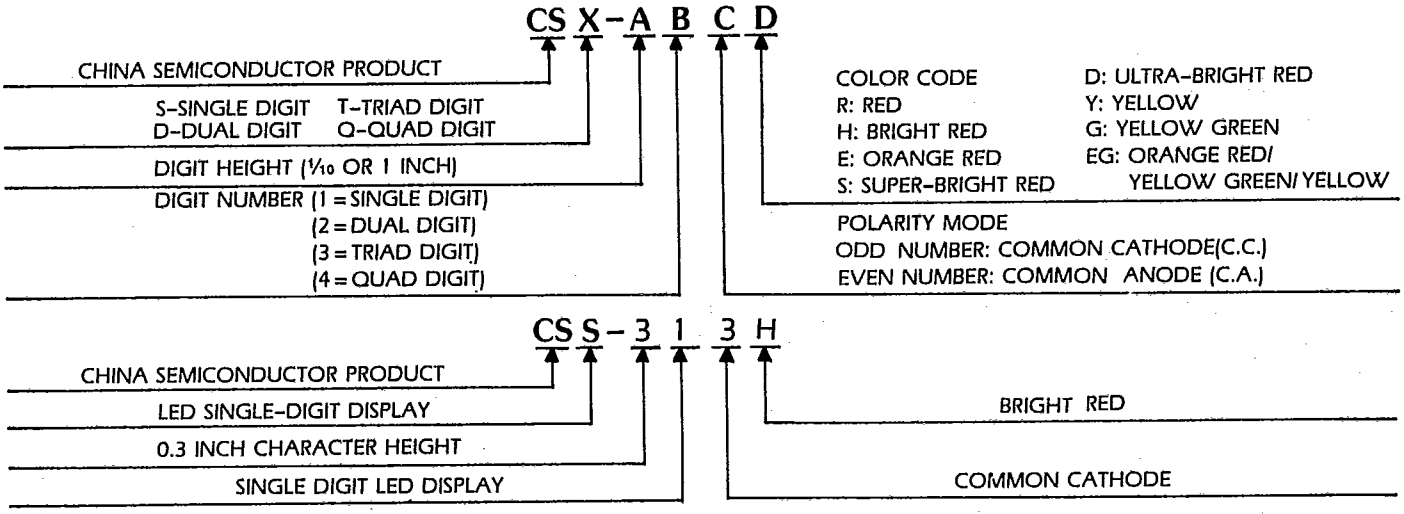
NUMERIC/ALPHANUMERIC DISPLAY
GENERAL INFORMATION

Part Number System



Electro-Optical Characterics (Ta = 25°C)

COLOR	Peak Emission Wavelength λ_P (nm)	Dice Material	Forward Voltage Per Dice V_F (V)		Luminous Intensity I_V (ucd)	Test Condition
			TYP	MAX		
RED	655	GaAsP/GaAs	1.7	2.0	1,000	I_F = 20 mA
BRIGHT RED	695	GaP/GaP	2.0	2.8	1,400	I_F = 20 mA
ORANGE RED	635	GaAaP/GaP	2.1	2.8	4,000	I_F = 20 mA
SUPER-BRIGHT RED	660	GaAlAs/GaAs (SH)	1.8	2.5	6,000	I_F = 20 mA
ULTRA-BRIGHT RED	660	GaAlAs/GaAs (DH)	1.8	2.5	10,000	I_F = 20 mA
YELLOW	590	GaAsP/GaP	2.1	2.8	4,000	I_F = 20 mA
YELLOW GREEN	570	GaP/GaP	2.2	2.8	4,000	I_F = 20 mA

DIGIT HEIGHT	DIGIT/ DRIVE MODE	CSC PART NUMBER: CSS-, CSD-, CST-, CSQ-							MODE
		RED	BRIGHT RED	ORANGE RED	SUPER-BRIGHT RED	ULTRA-BRIGHT RED	YELLOW GREEN	YELLOW	
0.30" 7.6mm	1	311R	311H	311E	311S	311D	311G	311Y	N/A
	N/A								
0.30" 7.6mm	1	312R	312H	312E	312S	312D	312G	312Y	C.A.
	N/A	313R	313H	313E	313S	313D	313G	313Y	C.C.
0.36" 9.1mm	1	316R	316H	316E	316S	316D	316G	316Y	C.A.
	N/A	317R	317H	317E	317S	317D	317G	317Y	C.C.

DIGIT HEIGHT	DIGIT/ DRIVE MODE	CSC PART NUMBER: CSS-, CSD-, CST-, CSQ-							MODE
		RED	BRIGHT RED	ORANGE RED	SUPER-BRIGHT RED	ULTRA-BRIGHT RED	YELLOW/ GREEN	YELLOW/	
0.36" 9.2mm	1	318R	318H	318E	318S	318D	318G	318Y	C.A.
	N/A	319R	319H	319E	319S	319D	319G	319Y	C.C.
0.40" 10.2mm	1	410R	410H	410E	410S	410D	410G	410Y	N/A
	N/A								
0.40" 10.2mm	1	414R	414H	414E	414S	414D	414G	414Y	C.A.
	N/A	415R	415H	415E	415S	415D	415G	415Y	C.C.
0.43" 11.0mm	1	401R	401H	401E	401S	401D	401G	401Y	N/A
	N/A								
0.43" 11.0mm	1	416R	416H	416E	416S	416D	416G	416Y	C.A.
	N/A	417R	417H	417E	417S	417D	417G	417Y	C.C.
0.50" 12.7mm	1	510R	510H	510E	510S	510D	510G	510Y	C.A.
	N/A	511R	511H	511E	511S	511D	511G	511Y	C.C.
0.50" 12.7mm	1	512R	512H	512E	512S	512D	512G	512Y	C.A.
	N/A	513R	513H	513E	513S	513D	513G	513Y	C.C.
0.52" 13.2mm	1	516R	516H	516E	516S	516D	516G	516Y	C.A.
	N/A	517R	517H	517E	517S	517D	517G	517Y	C.C.
0.52" 13.2mm	1	518R	518H	518E	518S	518D	518G	518Y	C.A.
	N/A	519R	519H	519E	519S	519D	519G	519Y	C.C.
0.56" 14.2mm	1	514R	514H	514E	514S	514D	514G	514Y	C.A.
	N/A	515R	515H	515E	515S	515D	515G	515Y	C.C.
0.60" 15.2mm	1	N/A	612H	612E	612S	612D	612G	612Y	C.A.
	N/A	N/A	613H	613E	613S	613D	613G	613Y	C.C.
0.63mm 16.0mm	1	614R	614H	614E	614S	614D	614G	614Y	C.A.
	N/A	615R	615H	615E	615S	615D	615G	615Y	C.C.
0.80" 20.3mm	1	N/A	815H	815E	815S	815D	815G	815Y	C.C.
	N/A	N/A	816H	816E	816S	816D	816G	816Y	C.A.

DIGIT HEIGHT	DIGIT/ DRIVE MODE	CSC PART NUMBER: CSS-, CSD-, CST-, CSQ-							MODE
		RED	BRIGHT RED	ORANGE RED	SUPER-BRIGHT RED	ULTRA-BRIGHT RED	YELLOW GREEN	YELLOW	
0.80" 20.3mm 	1	N/A	817H	817E	817S	817D	817G	817Y	C.C.
	N/A	N/A	818H	818E	818S	818D	818G	818Y	C.A.
1.02" 26.0mm 	1	1012R	1012H	1012E	1012S	1012D	1012G	1012Y	C.A.
	N/A	1013R	1013H	1013E	1013S	1013D	1013G	1013Y	C.C.
1.77" 45.0mm 	1	N/A	N/A	1814E	1814S	1814D	1814G	1814Y	C.A.
	N/A	N/A	N/A	1815E	1815S	1815D	1815G	1815Y	C.C.
2.00" 50.8mm 	1	N/A	N/A	2012E	2012S	2012D	2012G	2012Y	C.A.
	N/A	N/A	N/A	2013E	2013S	2013D	2013G	2013Y	C.C.
2.24" 57.0mm 	1	N/A	N/A	2314E	2314S	2314D	2314G	2314Y	C.A.
	N/A	N/A	N/A	2315E	2315S	2315D	2315G	2315Y	C.C.
4.00" 101.6mm 	1	N/A	N/A	4012E	4012S	4012D	4012G	4012Y	C.A.
	N/A	N/A	N/A	4013E	4013S	4013D	4013G	4013Y	C.C.
0.30" 7.6mm 	2	322R	322H	322E	322S	322D	322G	322Y	C.A.
	DUPLEX	323R	323H	323E	323S	323D	323G	323Y	C.C.
0.30" 7.6mm 	2	326R	326H	326E	326S	326D	326G	326Y	C.A.
	DIRECT	327R	327H	327E	327S	327D	327G	327Y	C.C.
0.30" 7.6mm 	2	328R	328H	328E	328S	328D	328G	328Y	C.A.
	DIRECT	329R	329H	329E	329S	329D	329G	329Y	C.C.
0.40" 10.0mm 	2	422R	422H	422E	422S	422D	422G	422Y	C.A.
	DIRECT	423R	423H	423E	423S	423D	423G	423Y	C.C.
0.40" 10.1mm 	2	424R	424H	424E	424S	424D	424G	424Y	C.A.
	DIRECT	425R	425H	425E	425S	425D	425G	425Y	C.C.
0.50" 12.7mm 	2	520R	520H	520E	520S	520D	520G	520Y	C.A.
	DIRECT	521R	521H	521E	521S	521D	521G	521Y	C.C.
0.50" 12.7mm 	2	522R	522H	522E	522S	522D	522G	522Y	C.A.
	DUPLEX	523R	523H	523E	523S	523D	523G	523Y	C.C.

DIGIT HEIGHT	DIGIT/ DRIVE MODE	CSC PART NUMBER: CSS-, CSD-, CST-, CSQ-							MODE
		RED	BRIGHT RED	ORANGE RED	SUPER-BRIGHT RED	ULTRA-BRIGHT RED	YELLOW GREEN	YELLOW	
12.7mm 0.50"	2 DIRECT	528R 529R	528H 529H	528E 529E	528S 529S	528D 529D	528G 529G	528Y 529Y	C.A. C.C.
13.8mm 0.54"	2 DUPLEX	5422R 5423R	5422H 5423H	5422E 5423E	5422S 5423S	5422D 5423D	5422G 5423G	5422Y 5423Y	C.A. C.C.
14.2mm 0.56"	2 DIRECT	524R 525R	524H 525H	524E 525E	524S 525S	524D 525D	524G 525G	524Y 525Y	C.A. C.C.
14.2mm 0.56"	2 DIRECT	526R 527R	526H 527H	526E 527E	526S 527S	526D 527D	526G 527G	526Y 527Y	C.A. C.C.
14.2mm 0.56"	2 DIRECT	5622R 5623R	5622H 5623H	5622E 5623E	5622S 5623S	5622D 5623D	5622G 5623G	5622Y 5623Y	C.A. C.C.
20.3mm 0.80"	2 DIRECT	N/A N/A	822H 823H	822E 823E	822S 823S	822D 823D	822G 823G	822Y 823Y	C.A. C.C.
14.2mm 0.56"	3 MPX	532R 533R	532H 533H	532E 533E	532S 533S	532D 533D	532G 533G	532Y 533Y	C.A. C.C.
14.2mm 0.56"	3 DIRECT	534R 535R	534H 535H	534E 535E	534S 535S	534D 535D	534G 535G	534Y 535Y	C.A. C.C.
6.2mm 0.25"	4 DIRECT	253R 254R	253H 254H	253E 254E	253S 254S	253D 254D	253G 254G	253Y 254Y	C.C. C.A.
6.2mm 0.25"	4 MPX	255R 256R	255H 256H	255E 256E	255S 256S	255D 256D	255G 256G	255Y 256Y	C.C. C.A.
7.0mm 0.27"	4 MPX	N/A 247R	N/A 247H	N/A 247E	N/A 247S	N/A 247D	N/A 247G	N/A 247Y	N/A C.C.
14.2mm 0.56"	4 MPX	541R 542R	541H 542H	541E 542E	541S 542S	541D 542D	541G 542G	541Y 542Y	C.C. C.A.
14.2mm 0.56"	4 DIRECT	543R 544R	543H 544H	543E 544E	543S 544S	543D 544D	543G 544G	543Y 544Y	C.C. C.A.