

Display Drivers and Interface ICs

Decoder Drivers

Type	Description	Supply Voltage Range (V)	Electrical Characteristics ($T_A = 25^\circ\text{C}$)				
			Output Drive Current Capability (mA)	Standby Power Dissipation Typ. (mW)	Max. Supply Current (I^{**}) (mA)	Package Number of Pins*	Operating T_A Range ($^\circ\text{C}$)
CA3161	BCD-to-7-segment type for common-anode LED displays (in combination with CA3168 for digital readout systems)	4.5 to 5.5	25/seg** (constant current)	18	8	16E	-25 to +85
CA3168	2-digit, 7-segment type for common-anode LED displays for 2-digit display such as numbers for TV and channel selection and other 0-99 counting applications	4.5 to 6	25/seg ($V_{\text{sat}} = 1\text{V}$ @ 25mA)	85	25	24E	0 to 70
CD7211 CD7211A CD7211M CD7211AM	Non-multiplexed 4-digit, 7-segment LCD types Decodes multiplexed binary to hexadecimal (CA7211, CA7211M) and decimal (CD7211A, CD7211AM) outputs	3-6	Backplane signal frequency (kHz) 125	0.05	On-board oscillator frequency (kHz) 16	40E	-20 to 70

* See interpretation guide and packaging section

**Typical

General-Purpose High-Current Silicon NPN Transistor Arrays

Type	Description	Array Configuration	Max. I_C (mA)	Typical $V_{CE\text{ SAT}}$ (at 50 mA) V	Operating Range T_A ($^\circ\text{C}$)	Package Number of Pins*
CA3081 CA3082	Directly drive 7-segment incandescent and LED displays	7-transistor common emitter	100	0.4	-55 to +125	16E, F
		common collector				
CA3251 CA3250		8-transistor common emitter	100	0.4		16E, F
		common collector				

* See interpretation guide and packaging section

BiMOS Sequencer Driver and Segment Latch-Driver for Driving Vacuum Fluorescent Display Devices

Type	Description		Operating Output Voltage Range (V)	Will Source	Operating T_A Range ($^\circ\text{C}$)	Package Number of Pins*
CA3207	Sequencer driver	Sequentially turns on 1 of 14 characters (2 of 28) when used with two CA3208's	35 to 55	40mA/character	-40 to +85	22E
CA3208	Segment latch-driver	Drives any combination of 14 outputs selected by DATA input		7.5mA/segment		22E

* See interpretation guide and packaging section

Video Line Driver, High-Speed Operational Amplifier

Type	Description	Electrical Characteristics ($T_A = 25^\circ\text{C}$)				Package Number of Pins*
		Output Drive Current Capability (mA)	A_{OL} @ $f = 5\text{MHz}$ (dB)	f_F (MHz)	Slew Rate ($A_V \geq 10$) ($\text{V}/\mu\text{s}$)	
CA3450	For Driving: - Multiple transmission lines - Flash A/D converters	± 75	>40	220 ($C_C = 0$)	330 ($C_C = 0$) ($R_L = 50\Omega$)	16E

Operating Temperature Range (T_A): 125 $^\circ\text{C}$ to -85 $^\circ\text{C}$

* See interpretation guide and packaging section