

## Transistors for TV Display Horizontal Deflection Output Use

In recent years the development of new media has greatly changed the contents of information to be communicated and the amount of visual information has increased remarkably. For these circumstances Sanyo has developed horizontal deflection output-use transistors capable of being applied to terminals (monitor TVs) that communicate information to us.

- Features
- \* Less cost and less number of set assembling processes because mounting requires no insulator (TO-220ML, TO-3PML)
  - \* Fast switching speed
  - \* High reliability

### General-Purpose Type

★ Monochro Use (\*: Tc=25°C)

Type No.		Package	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C					
with	without		V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>C</sub> (A)	P <sub>C</sub> * (W)	V <sub>CE</sub> (V)	I <sub>C</sub> (A)	h <sub>FE</sub>	I <sub>C</sub> (A)	I <sub>B</sub> (A)	V <sub>CE(sat)</sub> max (V)
-	2SD1159	TO-220	200	60	4.5	40	5	30-160	4	0.4	1	0.5
-	2SD1958	TO-220ML	200	60	4.5	30	5		4	0.4		
-	2SD1908	TO-220MF	330	150	7.0	50	1	min15	5	0.5		

### Color TV Use

2SD1397	-	TO-3PB	1500	800	3.5	80	5	min 8	0.5	2.5	0.8	8	0.4
2SD1398	2SD1402				5.0	120			1	4	0.8	5	0.4
2SD1399	2SD1403				6.0	120			1	5	1	5	0.4
-	2SD1677				5.0	100			0.5	4.5	2	5	0.5
2SD1649	-	TO-3PML	1500	800	2.5	50	5	min 8	0.5	2	0.6	8	0.4
2SD1650	2SD1654				3.5	50			0.5	2.5	0.8	8	0.4
2SD1651	2SD1655				5.0	60			1	4	0.8	5	0.4
2SD1652	2SD1656				6.0	60			1	5	1	5	0.4
2SD1711	2SD1710				5.0	50			0.5	4.5	2	5	0.5

BU508D	BU508A	TO-3PB	1500	800	5.0	100	5	min 8	0.5	4.5	2	5	0.4
BU508DF	BU508AF	TO-3PML			5.0	50			0.5	4.5	2	5	0.4

### High-Performance Type (\*: Tc=25°C)

The high-performance type transistors are fabricated using the process technology (MBIT) used to fabricate transistors of very fine structure. They provide less heat generation inside a set and higher cost performance in TV design.

Type No.		Package	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C						
with	without		V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>C</sub> (A)	P <sub>C</sub> * (W)	V <sub>CE</sub> (V)	I <sub>C</sub> (A)	h <sub>FE</sub>	I <sub>C</sub> (A)	I <sub>B</sub> (A)	V <sub>CE(sat)</sub> max (V)	t <sub>f</sub> max (μs)
2SD1876	2SD1882	TO-3PML	1500	800	3.0	50	5	min 8	0.5	2	0.6	5	0.3
2SD1877	2SD1883				4.0					2.5	0.8		
2SD1878	2SD1884				5.0	4			0.8				
2SD1879	2SD1885				6.0	60			1	5	1.0		
2SD1880	2SD1886				8.0	70			1	6	1.2		
2SD1881	2SD1887				10.0					8	1.6		
2SD2251	2SD2252				7.0	60			1	5	1.0		

These specifications are subject to change without notice.

