

Transistors (Selection Guide by Applications and Functions)

■ Silicon Power Transistors for TV and CRT Monitors

Applica- tion	V _{CEO} (V)	I _c (A)	t _r max (μs)	Package (No.)									
				TO-220F(b) (D56)	TO-220(b) (D53)	TOP-3(b) (D61)		TOP-3F (D63※, D64)		TOP-3E (D65)		TOP-3L (D67)	
						Built-in damper diodes		Built-in damper diodes		Built-in damper diodes			
Horizon- tal output	1200	10	0.3									2SC3738	
	1400	0.3	1	2SC4152	2SC4576								
		10	0.5									2SC4096	
	1500	1.5	0.8	2SD2310				2SD1727	2SD1735	2SD1844			
		1.5	1	2SD1734									
		2	1	2SD1575									
		2.5	0.8			2SD1479	2SD1728	2SD1576 2SD1736	2SD1845				
		3	0.8				2SD1439		2SD1541	2SD2511	2SD2510		
		3.5	0.8				2SD1729	2SD1737	2SD1846				
		4	0.8				2SD1441		2SD1632				
		5	0.8			2SD1391		2SD1577 2SD1738 2SD2329	2SD1847	2SD2513	2SD2512		
		6	0.8				2SD1731	2SD1739	2SD1848				
		7	0.5						2SD2354		2SC5163		
			0.8				2SD1732	2SD1850 2SD2330	2SD1849 2SD2057	2SD2515	2SD2514		
		10	0.5						2SD2355				
			0.6								2SC5164		2SC4111
			0.8							△ 2SC5166			
		12	0.2							2SC5270			
		15	0.5										△ 2SC5235
		16	0.3							2SC5380			2SC5381
		20	0.2							2SC5294			2SC5244
	0.5								2SC5165				
		0.8							△ 2SC5167				
	1700	2.5	0.8								2SD2521		
		6	0.8							2SC5389	2SD2523		
		10	0.2							△ 2SC5309			
		15	0.25										2SC5243

△ Tentative

■ Video-Output Hybrid-IC for CRT Monitors

● △UNC0101 Specifications

Parameter	Symbol	Conditions	min	typ	max	Unit
Recommended Power supply voltage	V _{CC}	—		80		V
Band width (−3dB)	f _c	V _{CC} = 80V, CL = 10pF, V _{in} (DC) = 2.5V, V _{out pp} = 30V	100	110		MHz
DC voltage gain	G _V (DC)	—	16.5	17.5	18.5	—
3-ch total supply current	I _{CC} (DC)	V _{CC} = 80V, CL = 10pF, V _{in} (DC) = 2.5V, V _{out pp} = 50V, 100kHz square wave			60	mA
	I _{CC} (AC)				150	mA
Rise time transient response (10 to 90%)	t _r			6.0		ns
Fall time transient response (10 to 90%)	t _f			4.5		ns
Over shoot voltage	V _{OS}	With input-peaking		5		V

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