

Transistors for Very High-Definition CRT Display Horizontal Deflection Output Use (I)

Transistors for CRT horizontal deflection output use must be of high-breakdown voltage, high-current, high-speed switching type to provide higher frequency.

We have the following lineup of transistors for various uses.

Features

- *Fast switching speed.
- *High energy handling capability.

Use

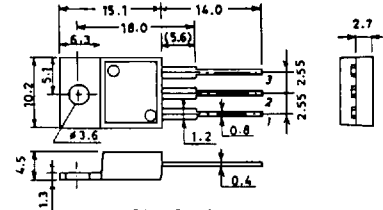
- *Horizontal frequency ~100KHz available.

Monochron Use (Adoption of MBIT process)

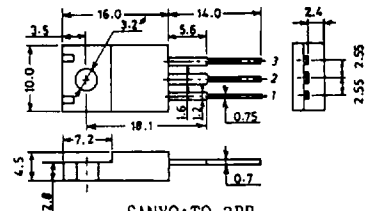
Type No.	Package	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C						
		V _{CBO}	V _{CEO}	I _C	P _C	V _{CE}	I _C	h _{FE}	I _C	I _B	V _{CE(sat)}	t _f
		(V)	(V)	(A)	Tc=25°C (W)	(V)	(A)	min	(A)	(A)	(V)	(μs)
2SC3591	TO-220	400	200	7	50	1	1	15	5	0.5	0.8	0.3
2SC4478	TO-220ML	400	200	7	30	1	1	15	5	0.5	0.8	0.3
2SC4440		600	400	7	30	5	0.8	15	4	0.8	0.8	0.2
2SC4441		600	400	10	35	5	1.2	15	6	1.2	0.8	0.2
2SC3636	TO-3PB	900	500	7	80	5	0.8	8	4	0.8	2	0.2
2SC3637		900	500	10	90	5	1	8	5	1.0	2	0.2
2SC3638		900	500	15	100	5	1.4	8	7	1.4	2	0.2
2SC3642		1200	800	6	100	5	0.8	8	4	0.8	5	0.2
2SC3643		1200	800	8	140	5	1.2	8	6	1.2	5	0.2
2SC3644		1200	800	12	150	5	1.6	8	8	1.6	5	0.2

Case Outlines(unit:mm)

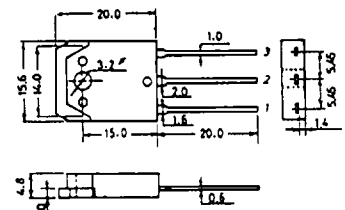
SANYO:TO-220
1:Base, 2:Collector, 3:Emitter



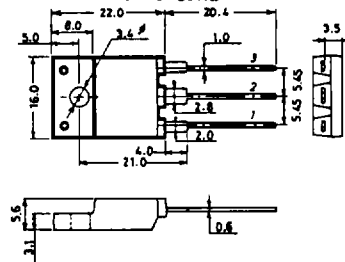
SANYO:TO-220ML



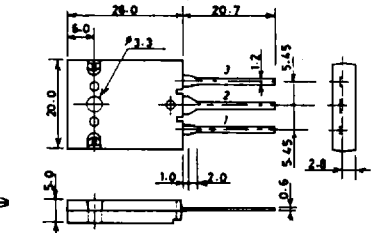
SANYO:TO-3PB



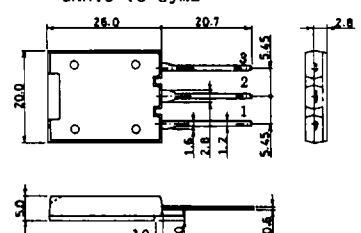
SANYO:TO-3PML



SANYO:TO-3PBL



SANYO:TO-3JML



Color Use (Adoption of MBIT process)

Type No. Damper Diode		Package	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C						
			V _{CBO}	V _{CEO}	I _C	P _C	V _{CE}	I _C	h _{FE}	I _C	I _B	V _{CE(sat)}	t _f
			(V)	(V)	(A)	Tc=25°C (W)	(V)	(A)	min	(A)	(A)	(V)	(μs)
Without	With												
2SC3685	-	TO-3PB			6	120				4	1		
2SC3686	-				7	120				5	1.2		
2SC3687	-				8	150				6	1.5		
2SC3688	-				10	150				8	2		
2SC3894	-	TO-3PML			6	60				4	1		
2SC3895	2SC4123				7	60				5	1.2		
2SC3896	2SC4124				8	70				6	1.5		
2SC3897	2SC4125		1500	800	10	70			5	8	2	5	0.2
2SC4770*2SC4769*					7	60				5	1.7		
2SC4890	-				12	75				10	2.5		
2SC4891	-				15	75				12	3		
2SC4923	2SC4124				8	70				6	1.5		
2SC4924	2SC4125				10	70				8	2		
2SC3995	-	TO-3PBL			12	180				10	2.5		
2SC3996	-				15	180				12	3		
2SC3997	-				20	250				16	4		
2SC3998	-				25	250				20	5		
2SC5238	-	TO-3JML			50	160			20-30	40	10		

*:hFE is classified by hFE (2).

New Product High-Voltage (VCBO=1600V) Use (Adoption of MBIT process)

Type No. *:with Damper Diode	Package	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C						
		V _{CBO}	V _{CEO}	I _C	P _C	hFE		I _C	I _B	V _{CE(sat)}	t _f	
		(V)	(V)	(A)	Tc=25°C (W)	hFE 1 (5V, 1A)	hFE 2 (5V)	(A)	(A)	(V)	(μs)	
2SC5041*	TO-3PML			7	60	10-20	5A 4-7	5	1.25			
2SC5042				7	60	15-25	5A 4-7	5	1.25			
2SC5043*				10	70	10-20	8A 4-7	8	2			
2SC5044		1600	800	10	70	15-25	8A 4-7	8	2	5	0.2	
2SC5045	TO-3PBL			15	75	15-25	12A4-7	12	3			
2SC5046				15	180	15-25	12A4-7	12	3			
2SC5047				25	250	15-25	20A4-7	20	5			

These specifications are subject to change without notice.

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