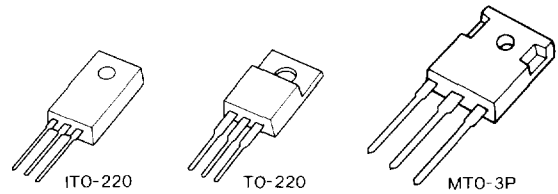


High Voltage · High Speed Switching Transistors

HDT series

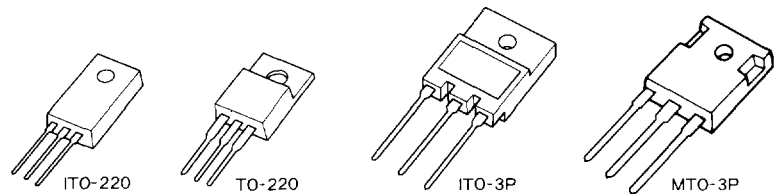
Bipolar transistors (NPN)



Type No.	Absolute Maximum Ratings									Electrical Characteristics									Outline	
EIAJ No.	V _{CB0} [V]	V _{CE0} [V]	V _{EB0} [V]	I _c [A]	I _B [A]	P _T [W]	T _{stg} [°C]	T _J [°C]	V _{CE0} (sus) (min) [V]	h _{FE} (min)	V _{CE} (sat) (max) [V]	V _{BE} (sat) (max) [V]	θ _{jc} (max) [°C/W]	f _T (typ) [MHz]	t _{on} (max) [μs]	t _s (max) [μs]	t _f (max) [μs]	Package		
2SC4310	900	800	7	6	3	50	-55	150	800	7	1.5	2.5	2.5	7	0.5	3	0.5	TO-220	80-3	
4311				6	3	40							3.1					ITO-220	82-4	
4312				6	3	80							1.56					MTO-3P	86-2	
4313				10	4	100							1.25							
4314				15	6	130							0.96							

HFX series

Bipolar transistors (NPN)



Type No.	Absolute Maximum Ratings									Electrical Characteristics								Outline	
EIAJ No.	V _{CB0} [V]	V _{CE0} [V]	V _{EB0} [V]	I _c [A]	I _B [A]	P _T [W]	T _{stg} [°C]	T _J [°C]	V _{CE0} (sus) (min) [V]	h _{FE} (min)	V _{CE} (sat) (max) [V]	V _{BE} (sat) (max) [V]	θ _{jc} (max) [°C/W]	f _T (typ) [MHz]	t _{on} (max) [μs]	t _s (max) [μs]	t _f (max) [μs]		
2SC4230	1,200	800	7	2	1	50	-55 150	150	800	8	1	1.5	2.5	8	0.5	3.5	0.3	TO-220	80-3
4231				2	1	30							4.16					ITO-220	82-4
4232				2	1	70							1.7					MTO-3P	86-2
4233				3	1	60							2.08					TO-220	80-3
4234				3	1	45							2.77					ITO-220	82-4
4235				3	1	80							1.56					MTO-3P	86-2
4236				6	3	100							1.25						
4237				10	4	150							0.83						
4583				3	1	50							2.5					ITO-3P	88-3
4584				6	3	65							1.92						
4585				10	4	85							1.47						

Switching Transistors for Lighting Equipment

Bipolar transistors (NPN)

Type No.	Absolute Maximum Ratings								Electrical Characteristics								Outline			
EIAJ No.	V _{CB0} [V]	V _{CE0} [V]	V _{EB0} [V]	I _c [A]	I _B [A]	P _T [W]	T _{stg} [°C]	T _J [°C]	V _{CE0} (sus) (min) [V]	h _{FE} (min)	V _{CE} (sat) (max) [V]	V _{BE} (sat) (max) [V]	θ _{jc} (max) [°C/W]	f _T (typ) [MHz]	t _{on} (max) [μs]	t _s (max) [μs]			t _f (max) [μs]	Package
2SC4940	1200	550	7	4	2	30	-55	150	550	10	1	1.5	4.16	10	0.8	3.0	3.5	0.3	ITO-220	82-4
4941	1500	800		6	3	65	150		800	15	0.5		1.92	8					ITO-3P	88-3