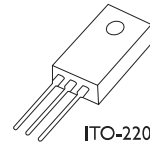


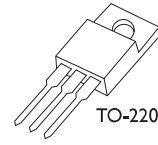
HIGH VOLTAGE • HIGH SPEED SWITCHING TRANSISTORS

HDT series

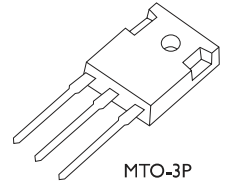
Bipolar transistors (NPN)



ITO-220

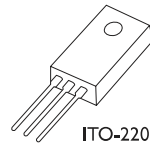


TO-220

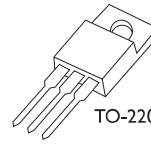


MTO-3P

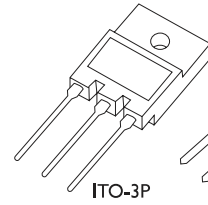
Type No.	Absolute Maximum Ratings								Electrical Characteristics									Outline		
	V _{RM}	V _{CEO}	V _{EB0}	I _C	I _B	P _T	T _{stg}	T _J	V _{CEO} (sus) (min)	hFE (min)	V _{CE} (sat) (max)	V _{BE} (sat) (max)	θ _{JC} (max)	f _T (typ)	t _{on} (max)	t _s (max)	t _f (max)	Package	Figure	
	[V]	[V]	[V]	[A]	[A]	[W]	[°C]	[°C]	[V]	(min)	[V]	[V]	[°C/W]	[MHz]	[μs]	[μs]	[μs]			
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						40							ITO-220					82-4		
4312				80	MTO-3P	86-2														
4313				10									4					100	150	1.25
4314				15									6					130	0.96	



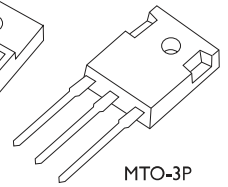
ITO-220



TO-220



ITO-3P

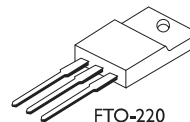


MTO-3P

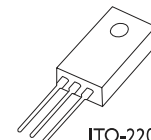
HFX series

Bipolar transistors (NPN)

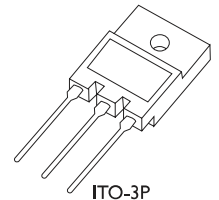
Type No.	Absolute Maximum Ratings								Electrical Characteristics									Outline		
	V _{RM}	V _{CEO}	V _{EB0}	I _C	I _B	P _T	T _{stg}	T _J	V _{CEO} (sus) (min)	hFE (min)	V _{CE} (sat) (max)	V _{BE} (sat) (max)	θ _{JC} (max)	f _T (typ)	t _{on} (max)	t _s (max)	t _f (max)	Package	Figure	
	[V]	[V]	[V]	[A]	[A]	[W]	[°C]	[°C]	[V]	(min)	[V]	[V]	[°C/W]	[MHz]	[μs]	[μs]	[μs]			
2SC4230	1200	800	7	2	1	50	-55	150	800	8	1	1.5	2.5	8	0.5	3.5	0.3	TO-220	80-3	
4231						30							ITO-220					82-4		
4232						70							MTO-3P					86-2		
4233				60	TO-220	80-3														
4234				45	ITO-220	82-4														
4235				80	MTO-3P	86-2														
4236				6									3					100	150	1.25
4237				10									4					150	0.83	
4583				3	1	50							2.5							
4584				6	3	65							1.92							
4585				10	4	85							1.47							



FTO-220



ITO-220



ITO-3P

Switching Transistors for Lighting Equipment

Bipolar transistors (NPN)

Type No.	Absolute Maximum Ratings								Electrical Characteristics									Outline	
	V _{RM}	V _{CEO}	V _{EB0}	I _C	I _B	P _T	T _{stg}	T _J	V _{CEO} (sus) (min)	hFE (min)	V _{CE} (sat) (max)	V _{BE} (sat) (max)	θ _{JC} (max)	f _T (typ)	t _{on} (max)	t _s (max)	t _f (max)	Package	Figure
	[V]	[V]	[V]	[A]	[A]	[W]	[°C]	[°C]	[V]	(min)	[V]	[V]	[°C/W]	[MHz]	[μs]	[μs]	[μs]		
2SC4940	1200	550	7	4	2	30	-55	150	550	10	1	1.5	4.16	10	0.8	3.0	0.3	ITO-220	82-4
4941	1500	800		6	3	65	150		800	15	0.5		1.92	8	0.5	3.5		ITO-3P	88-3
5382	1200	550		9	6	3	40		150	550	10		1	3.13	—	1.3		4.0	FTO-220