

High Speed Switching Transistors

F3 series

Bipolar transistors (NPN)

Part No.	Absolute Maximum Ratings						Electrical Characteristics										Outline	
EIAJ No.	V _{CB0}	V _{CEO}	V _{EB0}	I _C	I _B	P _T	V _{CEO} (sus) (min)	h _{FE} (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		
	[V]	[V]	[V]	[A]	[A]	[W]	[V]		[V]	[V]	[°C/W]	[MHz]	[μs]	[μs]	[μs]			
2SC3162	500	400	7	3	1	45	400	10	1	1.5	3.13	20	0.3	1	0.1	TO-220	55-3	
3163				6	2	50					2.5							
3164				10	4	100					1.25							

FX series

Bipolar transistors (NPN)

Part No.	Absolute Maximum Ratings						Electrical Characteristics										Outline	
EIAJ No.	V _{CB0} [V]	V _{CEO} [V]	V _{EB0} [V]	I _C [A]	I _B [A]	P _T [W]	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]			
2SC4051	600	450	7	3	1	40	450	10	1	1.5	3.12	20	0.5	2	0.2	TO-220	55-3	
4052						25					5					ITO-220	54-4	
4053						50					2.5					TO-220	55-3	
4054				5	2	30					4.16					ITO-220	54-4	
5241						30					4.16					FTO-220	60-3	
4055						60					2.08					TO-220	55-3	
4056				8	4	45					2.77					ITO-220	54-4	
4057						80					1.56					MT0-3P	57-2	
4058						10					1.25							
4059				15	0.96													
4060				20	0.83													
4580				8	2.5	ITO-3P					56-3							
4581				10	1.92													
4582				15	1.67													
3714	500	400		20	7	200												

FS series

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Part No.	Absolute Maximum Ratings						Electrical Characteristics										Outline				
EIAJ No.	V _{CB0}	V _{CE0}	V _{EB0}	I _C	I _B	P _T	V _{CE0} (sus) (min)	h _{FE} (min)	V _{CE} (sat) (max)	V _{BE} (sat) (max)	θ _{JC} (max)	f _T (max)	t _{on} (max)	t _s (max)	t _f (max)	Package			Fig.		
	[V]	[V]	[V]	[A]	[A]	[W]	[V]	(min)	[V]	[V]	[°C/W]	[MHz]	[μs]	[μs]	[μs]						
2SC4663	250	200	7	5	2	25	200	10	1	1.5	5	13	0.3	1	0.1	ITO-220	54-4				
4664				8	3	30					4.17										
5240	500	400		3	1.5	25	400				5										
4833				5	2	35					3.57										
4834				8	3	45					2.78										