

High Speed Switching Transistors

F3 series

Bipolar transistors (NPN)

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 (typ)	t _{on} (max)	t _s (max)	t _f (max)		
	[V]	[V]	[V]	[A]	[A]	[W]	[V]		[V]	[V]	[°C/W]	[MHz]	[μs]	[μs]	[μs]	Package	Fig.
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					MT0-3P	57-2

FX series

Bipolar transistors (NPN)

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 (typ)	t _{on} (max)	t _s (max)	t _f (max)		
	[V]	[V]	[V]	[A]	[A]	[W]	[V]		[V]	[V]	[°C/W]	[MHz]	[μs]	[μs]	[μs]	Package	Fig.
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						100					1.25						
4059						130					0.96						
4060				20	7	150					0.83						
4580						50					2.5					ITO-3P	56-3
4581						65					1.92						
4582						75					1.67						
3714	500	400		20	7	200					0.62					MT0-3L	58-1

FS series

Bipolar transistors (NPN)

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 (MHz)	t _{on} (max)	t _s (max)	t _f (max)						
	[V]	[V]	[V]	[A]	[A]	[W]	[V]		[V]	[V]	[°C/W]		[μs]	[μs]	[μs]	Package	Fig.				
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										