

2N6077-2N6079, 40851

ELECTRICAL CHARACTERISTICS, At Case Temperature (T_C) = 25°C unless otherwise specified

CHARACTERISTIC SYMBOL	TEST CONDITIONS				LIMITS										UNITS	
	VOLTAGE V dc		CURRENT A dc		2N6077			2N6078			2N6079			40851		
	V _{CE}	V _{BE}	I _C	I _B	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.		Max.
I _{CEO}	250	-1.5		0	-	-	2	-	-	-	-*	-	-	-	-	mA
I _{CEV} (T _C = 125°C)	250	-1.5			-	-	5	-	-	0.05	-	-	-	-	-	mA
	450	-1.5			-	-	-	-	-	-	-	-	0.5	-	0.5	mA
I _{EBO}		-6	0		-	-	1	-	-	1	-	-	-	-	-	mA
		-9	0		-	-	-	-	-	-	-	-	1	-	-	mA
V _{CEO(sus)}			0.2 ^a		275 ^b	-	-	250 ^b	-	-	350 ^b	-	-	350 ^b	-	V
V _{CER(sus)} (R _{BE} = 50Ω)			0.2 ^a		300 ^b	-	-	275 ^b	-	-	375 ^b	-	-	375 ^b	-	V
V _{VEBO} (I _E = 1 mA)			0		6	-	-	6	-	-	9	-	-	9	-	V
h _{FE}	1		1.2 ^a		12	28	70	12	28	70	12	28	50	12	-	
V _{BE(sat)}			1.2 ^a	0.2	-	1.0	1.6	-	1.0	1.6	-	1.0	1.6	-	-	V
			3 ^a	0.6	-	1.2	1.9	-	-	-	-	-	-	-	-	
			4 ^a	0.8	-	-	-	-	-	-	-	1.3	2	-	2	
			5 ^a	1	-	-	-	-	1.5	2	-	-	-	-	-	
V _{CE(sat)}			1.2 ^a	0.2	-	0.15	0.5	-	0.15	0.5	-	0.15	0.5	-	-	V
			3 ^a	0.6	-	0.25	1	-	-	-	-	-	-	-	-	
			4 ^a	0.8	-	-	-	-	-	-	-	0.5	3	-	3	
			5 ^a	1	-	-	-	-	0.8	3	-	-	-	-	-	
C _{obo} (V _{CB} = 10 V, f = 1 MHz)					-	-	150	-	-	150	-	-	150	-	-	pF
h _{fe} (f = 1 MHz)	10		0.2		1	7	-	1	7	-	1	7	-	-	-	
I _{S/b} (Pulse duration (non-repetitive) = 1 s)	50				0.9	-	-	0.9	-	-	0.9	-	-	0.9	-	A
E _{S/b} (R _B = 50Ω, L = 100μH)		-4	3 [•]		0.45	-	-	0.45	-	-	0.45	-	-	0.45	-	mJ
t _d ^c			1.2	0.2	-	0.02	-	-	0.02	-	-	0.02	-	-	-	μs
t _r ^c			1.2	0.2	-	0.3	0.75	-	0.3	0.75	-	0.3	0.75	-	-	
t _s ^c			1.2	0.2	-	2.8	5	-	2.8	5	-	2.8	5	-	-	
t _f ^c			1.2	0.2	-	0.3	0.75	-	0.3	0.75	-	0.3	0.75	-	-	
R _{θJC}	20		2.25		-	-	3.9	-	-	3.9	-	-	3.9	-	-	°C/W

*2N-series types in accordance with JEDEC registration data format (JS-6, RDF-1).

^aPulsed; pulse duration ≤ 350 μs, Duty factor = 2%.

^bCAUTION: The sustaining voltages V_{CEO(sus)} and V_{CER(sus)}, MUST NOT be measured on a curve tracer.

^cV_{CC} = 250 V, I_{B1} = I_{B2}.

[•]I_{CM} for 40851