

2SD2466, 2SD2466A

Silicon NPN epitaxial planar type

For low-voltage switching

Complementary to 2SB1604

Features

- Low collector to emitter saturation voltage $V_{CE(sat)}$
- High-speed switching
- Full-pack package with outstanding insulation, which can be installed to the heat sink with one screw

Absolute Maximum Ratings ($T_C=25^\circ\text{C}$)

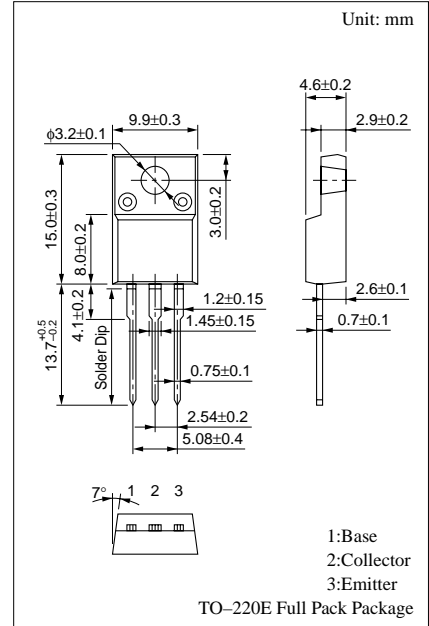
Parameter	Symbol	Rated	Unit
Collector to base voltage	2SD2466	40	V
	2SD2466A	50	
Collector to emitter voltage	2SD2466	20	V
	2SD2466A	40	
Emitter to base voltage	V_{EBO}	5	V
Peak collector current	I_{CP}	20	A
Collector current	I_C	10	A
Collector power dissipation	$T_C=25^\circ\text{C}$	40	W
	$T_a=25^\circ\text{C}$	2	
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics ($T_C=25^\circ\text{C}$)

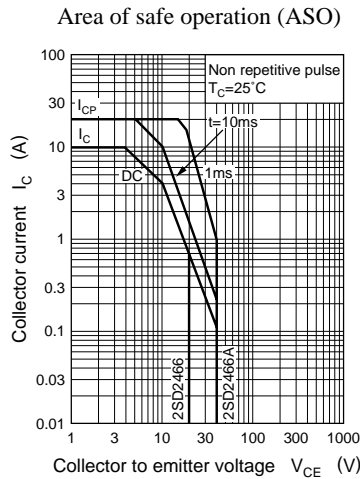
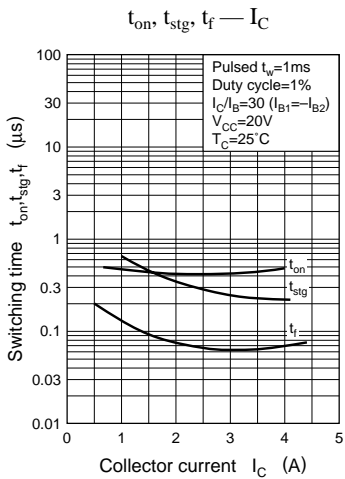
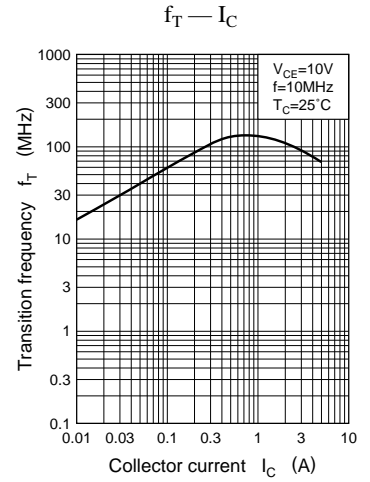
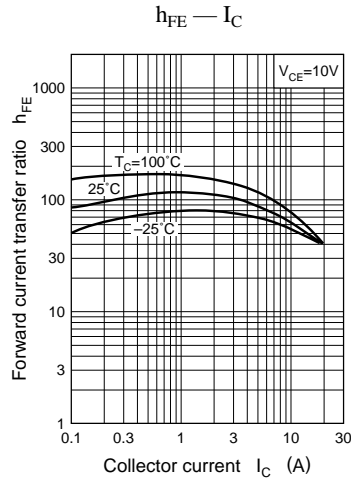
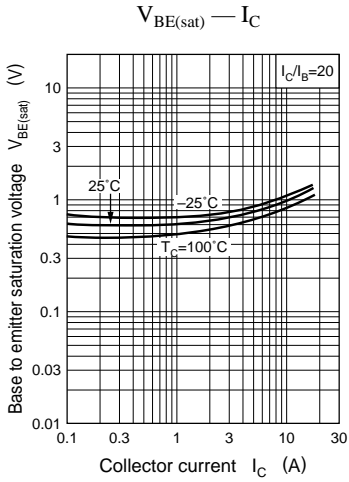
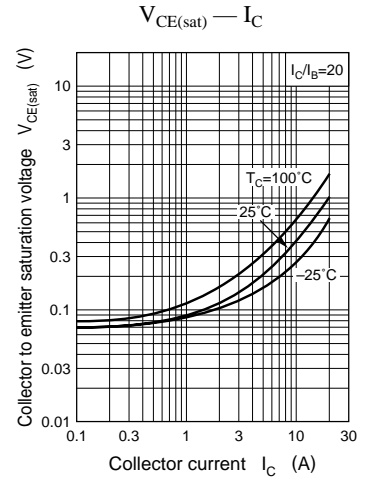
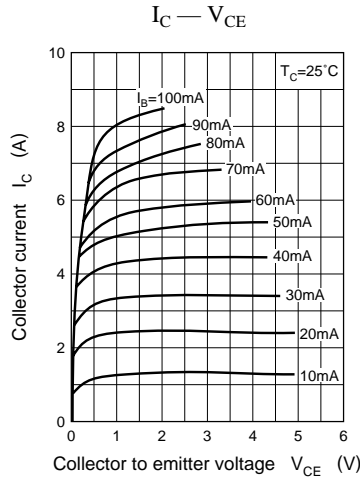
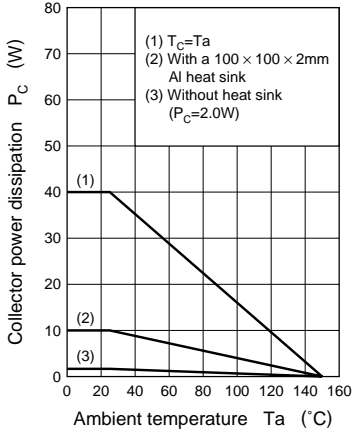
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	2SD2466	$V_{CB} = 40\text{V}, I_E = 0$			50	μA
	2SD2466A				50	
Emitter cutoff current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$			50	μA
Collector to emitter voltage	2SD2466	$I_C = 10\text{mA}, I_B = 0$	20			V
	2SD2466A		40			
Forward current transfer ratio	h_{FE1}	$V_{CE} = 2\text{V}, I_C = 0.1\text{A}$	45			
	h_{FE2}^*	$V_{CE} = 2\text{V}, I_C = 3\text{A}$	90		260	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = 10\text{A}, I_B = 0.33\text{A}$			0.6	V
Base to emitter saturation voltage	$V_{BE(sat)}$	$I_C = 10\text{A}, I_B = 0.33\text{A}$			1.5	V
Transition frequency	f_T	$V_{CE} = 10\text{V}, I_C = 0.5\text{A}, f = 10\text{MHz}$		120		MHz
Collector output capacitance	C_{ob}	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$		200		pF
Turn-on time	t_{on}	$I_C = 3\text{A}, I_{B1} = 0.1\text{A}, I_{B2} = -0.1\text{A}, V_{CC} = 20\text{V}$		0.3		μs
Storage time	t_{stg}				0.4	μs
Fall time	t_f				0.1	μs

* h_{FE2} Rank classification

Rank	Q	P
h_{FE2}	90 to 180	130 to 260



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$R_{th}(t) - t$

