2SD1266, 2SD1266A

Silicon NPN triple diffusion planar type

For power amplification

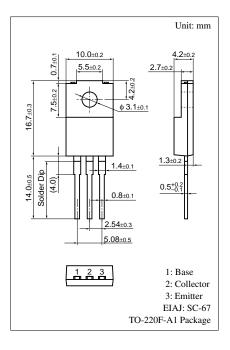
Complementary to 2SB0941 (2SB941) and 2SB941A (2SB941A)

Features

- ullet High forward current transfer ratio h_{FE} which has satisfactory linearity
- Low collector to emitter saturation voltage V_{CE(sat)}
- Full-pack package which can be installed to the heat sink with one screw

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Collector to base	2SD1266	V_{CBO}	60	V
voltage	2SD1266A		80	
Collector to	2SD1266	V_{CEO}	60	V
emitter voltage	2SD1266A		80	
Emitter to base voltage		V_{EBO}	6	V
Peak collector current		I_{CP}	5	A
Collector current		I_C	3	A
Collector power	$T_C = 25^{\circ}C$	P_{C}	35	W
dissipation	$T_a = 25^{\circ}C$		2	
Junction temperature		T _j	150	°C
Storage temperature		T_{stg}	-55 to +150	°C



■ Electrical Characteristics $T_a = 25$ °C

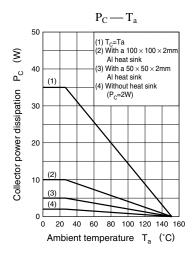
Parameter	f	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff	2SD1266	I _{CES}	$V_{CE} = 60 \text{ V}, V_{BE} = 0$			200	μΑ
current	2SD1266A		$V_{CE} = 80 \text{ V}, V_{BE} = 0$			200	
Collector cutoff	2SD1266	I _{CEO}	$V_{CE} = 30 \text{ V}, I_{B} = 0$			300	μΑ
current	2SD1266A		$V_{CE} = 60 \text{ V}, I_{B} = 0$			300	
Emitter cutoff current		I_{EBO}	$V_{EB} = 6 \text{ V}, I_{C} = 0$			1	mA
Collector to emitter	2SD1266	V _{CEO}	$I_C = 30 \text{ mA}, I_B = 0$	60			V
voltage	2SD1266A			80			
Forward current transfer ratio		h _{FE1} *	$V_{CE} = 4 \text{ V}, I_{C} = 1 \text{ A}$	70		250	
		h _{FE2}	$V_{CE} = 4 \text{ V}, I_{C} = 3 \text{ A}$	10			
Base to emitter voltage		V_{BE}	$V_{CE} = 4 \text{ V}, I_{C} = 3 \text{ A}$			1.8	V
Collector to emitter saturation voltage		V _{CE(sat)}	$I_C = 3 \text{ A}, I_B = 0.375 \text{ A}$			1.2	V
Transition frequency		f_T	$V_{CE} = 10 \text{ V}, I_{C} = 0.5 \text{ A}, f = 10 \text{ MHz}$		30		MHz
Turn-on time		t _{on}	$I_C = 1 A, I_{B1} = 0.1 A, I_{B2} = -0.1 A,$		0.5		μs
Storage time		t _{stg}	$V_{CC} = 50 \text{ V}$		2.5		μs
Fall time		$t_{\rm f}$			0.4		μs

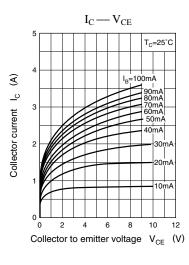
*h_{FE1} Rank classification

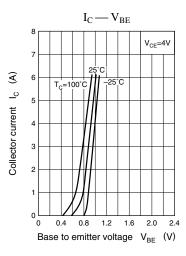
Rank	Q	Р		
h _{FE1}	70 to 150	120 to 250		

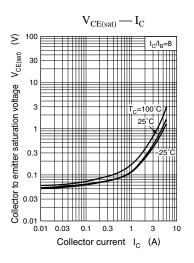
Note: Ordering can be made by the common rank (PQ rank h_{FE} = 70 to 250) in the rank classification.

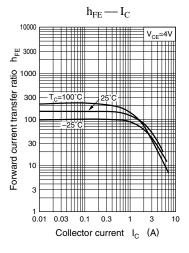
Note) The part number in the parenthesis shows conventional part number.

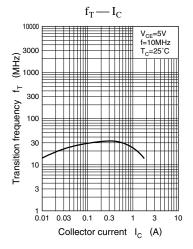


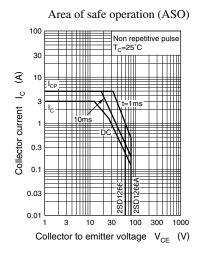


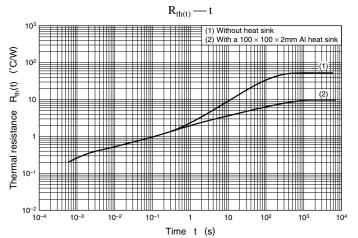












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