Panasonic

2SD1267, 2SD1267A

Silicon NPN triple diffusion planar type

For power amplification

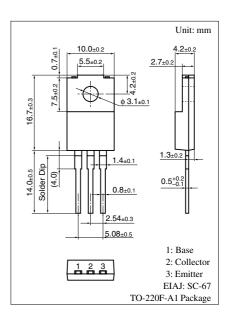
Complementary to 2SB0942 and 2SB0942A

■ Features

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

■ Absolute Maximum Ratings $T_C = 25$ °C

Parameter		Symbol	Rating	Unit
Collector to base	2SD1267	V_{CBO}	60	V
voltage	2SD1267A		80	
Collector to	2SD1267	V_{CEO}	60	V
emitter voltage	2SD1267A		80	
Emitter to base voltage		V_{EBO}	5	V
Peak collector current		I_{CP}	8	A
Collector current		I_C	4	A
Collector power	$T_C = 25^{\circ}C$	P_{C}	40	W
dissipation	$T_a = 25^{\circ}C$		2	
Junction temperature		T _j	150	°C
Storage temperature		T_{stg}	-55 to +150	°C



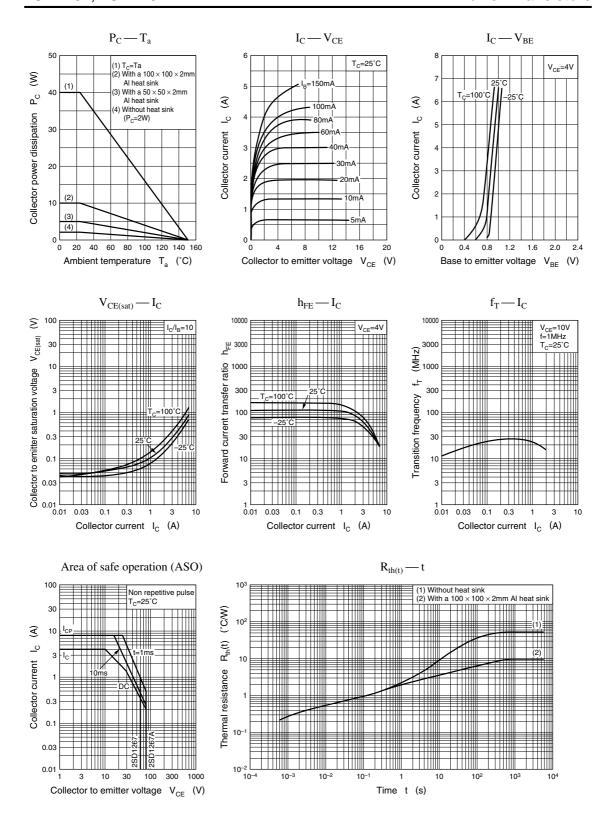
■ Electrical Characteristics $T_C = 25$ °C

Paramete	r	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff	2SD1267	I_{CES}	$V_{CB} = 60 \text{ V}, V_{BE} = 0$			400	μΑ
current	2SD1267A		$V_{CB} = 80 \text{ V}, V_{BE} = 0$			400	
Collector cutoff	2SD1267	I_{CEO}	$V_{CE} = 30 \text{ V}, I_{B} = 0$			700	μΑ
current	2SD1267A		$V_{CE} = 60 \text{ V}, I_{B} = 0$			700	
Emitter cutoff current		I_{EBO}	$V_{EB} = 5 \text{ V}, I_{C} = 0$			1	mA
Collector to emitter	2SD1267	V_{CEO}	$I_C = 30 \text{ mA}, I_B = 0$	60			V
voltage	2SD1267A			80			
Forward current transfer ratio		h _{FE1} *	$V_{CE} = 4 \text{ V}, I_{C} = 1 \text{ A}$	70		250	
		h _{FE2}	$V_{CE} = 4 \text{ V}, I_{C} = 3 \text{ A}$	15			
Base to emitter voltage	;	V_{BE}	$V_{CE} = 4 \text{ V}, I_{C} = 3 \text{ A}$			2	V
Collector to emitter satu	ration voltage	V _{CE(sat)}	$I_C = 4 \text{ A}, I_B = 0.4 \text{ A}$			1.5	V
Transition frequency		f_T	$V_{CE} = 5 \text{ V}, I_{C} = 0.5 \text{ A}, f = 1 \text{ MHz}$		20		MHz
Turn-on time		t _{on}	$I_C = 4 \text{ A}, I_{B1} = 0.4 \text{ A}, I_{B2} = -0.4 \text{ A},$		0.4		μs
Storage time		t _{stg}	$V_{CC} = 50 \text{ V}$		1.5		μs
Fall time		t_{f}			0.5		μs

Note) *: Rank classification

Rank	Q	Р
$h_{\rm FE1}$	70 to 150	120 to 250

Panasonic 285



286 Panasonic

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