2SD1267, 2SD1267A

Silicon NPN triple diffusion planar type

For power amplification

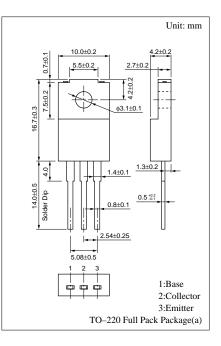
Complementary to 2SB0942 (2SB942) and 2SB0942A (2SB942A)

Features

- 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 $(T_c=25^{\circ}C)$						
Parameter		Symbol	Ratings	Unit		
Collector to	2SD1267	V	60	V		
base voltage	2SD1267A	V _{CBO}	80	v		
Collector to	2SD1267	3.7	60	3.7		
emitter voltage	2SD1267A	V _{CEO}	80	V		
Emitter to base voltage		V_{EBO}	5	V		
Peak collector current		I _{CP}	8	А		
Collector current		I _C	4	А		
Collector power	T _C =25°C	D	40	XX 7		
dissipation	Ta=25°C	P _C	2	W		
Junction temperature		Tj	150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		

Absolute Maximum Ratings (T_C=25°C)



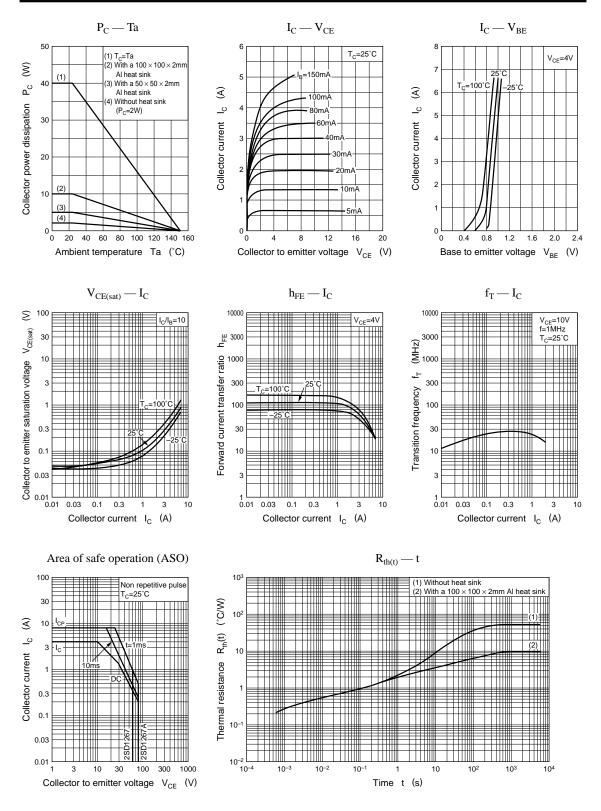
Electrical Characteristics $(T_c=25^{\circ}C)$

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff	2SD1267	I _{CES}	$V_{CB} = 60V, V_{BE} = 0$			400	μA
current	2SD1267A		$V_{CB} = 80V, V_{BE} = 0$			400	
Collector cutoff	2SD1267	- I _{CEO}	$V_{CE} = 30V, I_B = 0$			700	
current	2SD1267A		$V_{CE} = 60V, I_B = 0$			700	- μΑ
Emitter cutoff current		I _{EBO}	$V_{EB} = 5V, I_{C} = 0$			1	mA
Collector to emitter	2SD1267	V _{CEO}	$I_{\rm C} = 30 {\rm mA}, I_{\rm B} = 0$	60			- v
voltage	2SD1267A			80			
Forward current transfer ratio		h _{FE1} *	$V_{CE} = 4V, I_{C} = 1A$	70		250	
		h _{FE2}	$V_{CE} = 4V, I_C = 3A$	15			
Base to emitter voltage		V _{BE}	$V_{CE} = 4V, I_C = 3A$			2	V
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = 4 {\rm A}, I_{\rm B} = 0.4 {\rm A}$			1.5	V
Transition frequency		f _T	$V_{CE} = 5V, I_C = 0.5A, f = 1MHz$		20		MHz
Turn-on time		t _{on}			0.4		μs
Storage time		t _{stg}	$I_{C} = 4A, I_{B1} = 0.4A, I_{B2} = -0.4A,$		1.2		μs
Fall time		t _f	$V_{CC} = 50V$		0.5		μs

*h_{FE1} Rank classification

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

Note) The part numbers in the parenthesis show conventional part number.



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