2SD1262, 2SD1262A

Silicon NPN triple diffusion planar type Darlington

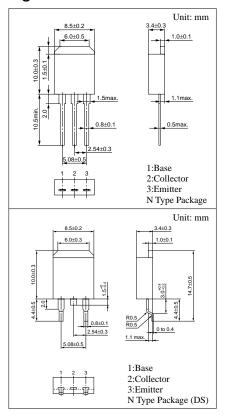
For midium speed power switching Complementary to 2SB0939 (2SB939) and 2SB939A (2SB939A)

Features

- High foward current transfer ratio h_{FE}
- High-speed switching
- N type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

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

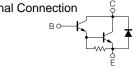
Parameter		Symbol	Ratings	Unit	
Collector to	2SD1262	V	60	V	
base voltage	2SD1262A	V_{CBO}	80		
Collector to	2SD1262	V	60	V	
emitter voltage	2SD1262A	V_{CEO}	80		
Emitter to base voltage		$V_{\rm EBO}$	7	V	
Peak collector current		I_{CP}	12	A	
Collector current		I_{C}	8	A	
Collector power	T _C =25°C	D	45	W	
dissipation	Ta=25°C	P_{C}	1.3	W	
Junction temperature		T_{j}	150	°C	
Storage temperature		T_{stg}	-55 to +150	°C	



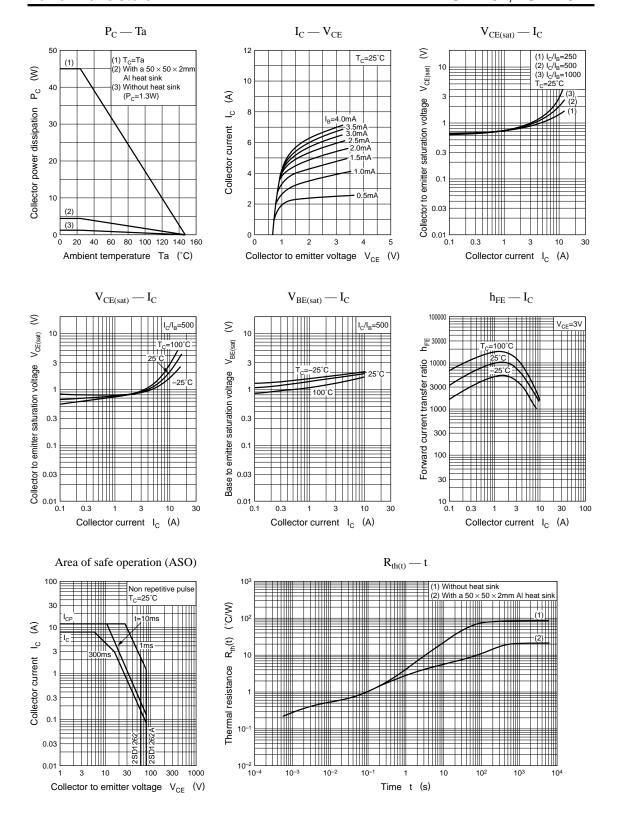
■ Electrical Characteristics (T_C=25°C)

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff	2SD1262		$V_{CB} = 60V, I_{E} = 0$			100	μА
current	2SD1262A	I _{CBO}	$V_{CB} = 80V, I_{E} = 0$			100	
Emitter cutoff curren	Emitter cutoff current		$V_{EB} = 7V, I_C = 0$			2	mA
Collector to emitter voltage		V _{CEO}	$I_C = 30 \text{mA}, I_B = 0$	60			V
				80			
Forward current transfer ratio		h _{FE1} *	$V_{CE} = 3V, I_C = 4A$	1000		10000	
		h _{FE2}	$V_{CE} = 3V, I_{C} = 8A$	500			
Collector to emitter saturation voltage		V _{CE(sat)}	$I_C = 4A, I_B = 8mA$			1.5	V
Base to emitter saturation voltage		V _{BE(sat)}	$I_C = 4A, I_B = 8mA$			2	V
Transition frequency		f_T	$V_{CE} = 10V, I_{C} = 0.5A, f = 1MHz$		20		MHz
Storage time t		t _{on}	$I_C = 4A, I_{B1} = 8mA, I_{B2} = -8mA,$		0.5		μs
		t _{stg}			4		μs
		$t_{\rm f}$	$V_{CC} = 50V$		1		μs

*h _{FE1} Rank c	Intern				
Rank	R	Q	P		
h _{FE1}	1000 to 2500	2000 to 5000	4000 to 10000		



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



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