Panasonic

2SD1263, 2SD1263A

Silicon NPN triple diffusion planar type

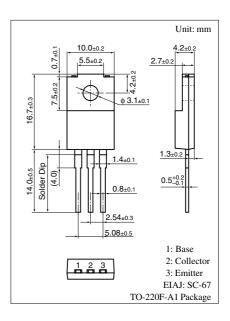
For power amplification

■ Features

- \bullet High collector to base voltage V_{CBO}
- Full-pack package which can be installed to the heat sink with one screw

■ Absolute Maximum Ratings $T_C = 25$ °C

Paramet	er	Symbol	Rating	Unit
Collector to base	2SD1263	V_{CBO}	350	V
voltage	2SD1263A		400	
Collector to	2SD1263	V _{CEO}	250	V
emitter voltage	2SD1263A		300	
Emitter to base voltage		V_{EBO}	5	V
Peak collector curr	ent	I_{CP}	1.5	A
Collector current		I_C	0.75	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



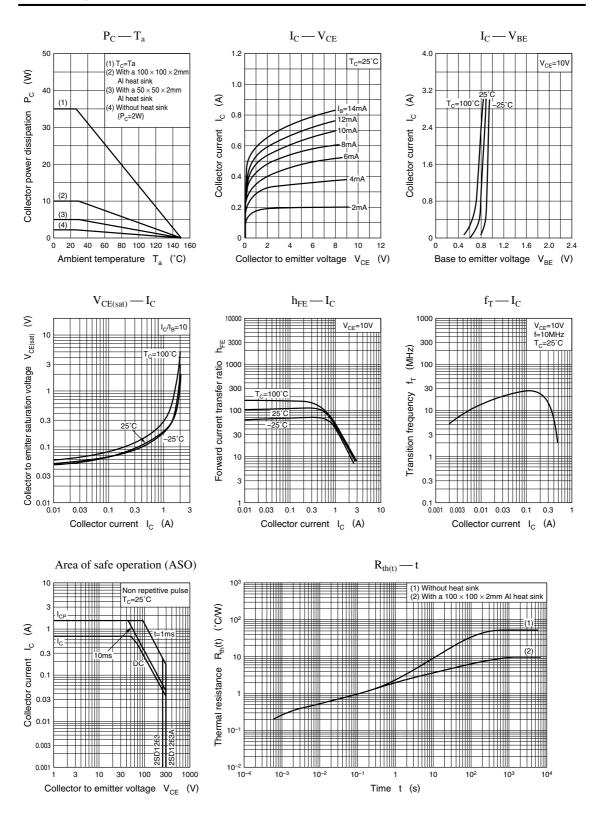
■ Electrical Characteristics $T_C = 25$ °C

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
	1	,		IVIIII	ТУР		
Collector cutoff	2SD1263	I_{CES}	$V_{CE} = 350 \text{ V}, V_{BE} = 0$			1	mA
current	2SD1263A		$V_{CE} = 400 \text{ V}, V_{BE} = 0$			1	
Collector cutoff	2SD1263	I_{CEO}	$V_{CE} = 150 \text{ V}, I_{B} = 0$			1	mA
current	2SD1263A		$V_{CE} = 200 \text{ V}, I_{B} = 0$			1	
Emitter cutoff current		I_{EBO}	$V_{EB} = 5 \text{ V}, I_{C} = 0$			1	mA
Collector to emitter	2SD1263	V _{CEO}	$I_C = 30 \text{ mA}, I_B = 0$	250			V
voltage	2SD1263A			300			
Forward current transfer ratio		h _{FE1} *	$V_{CE} = 10 \text{ V}, I_{C} = 0.3 \text{ A}$	70		250	
		h _{FE2}	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ A}$	10			
Base to emitter voltage		V _{BE}	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ A}$			1.5	V
Collector to emitter saturation voltage		V _{CE(sat)}	$I_C = 1 A, I_B = 0.2 A$			1	V
Transition frequency		f_T	$V_{CE} = 5 \text{ V}, I_{C} = 0.5 \text{ A}, f = 10 \text{ MHz}$		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		μs
Fall time		$t_{\rm f}$			0.5		μs

Note) *: Rank classification

Rank	Q	Р
h_{FE1}	70 to 150	120 to 250

Panasonic 279



280 Panasonic

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