2SD1263, 2SD1263A

Silicon NPN triple diffusion planar type

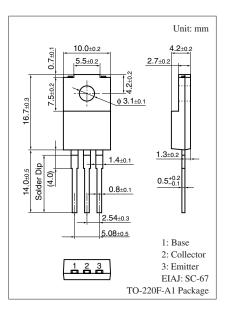
For power amplification

Features

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

Parameter	Symbol	Rating	Unit		
Collector-base voltage	2SD1263	V _{CBO}	350	V	
(Emitter open)	2SD1263A		400		
Collector-emitter voltage	2SD1263	V _{CEO}	250	V	
(Base open)	2SD1263A		300		
Emitter-base voltage (Col	V _{EBO}	5	V		
Collector current	I _C	0.75	А		
Peak collector current	I _{CP}	1.5	А		
Collector power	$T_C = 25^{\circ}C$	P _C	35	W	
dissipation			2.0		
Junction temperature	Tj	150	°C		
Storage temperature	T _{stg}	-55 to +150	°C		





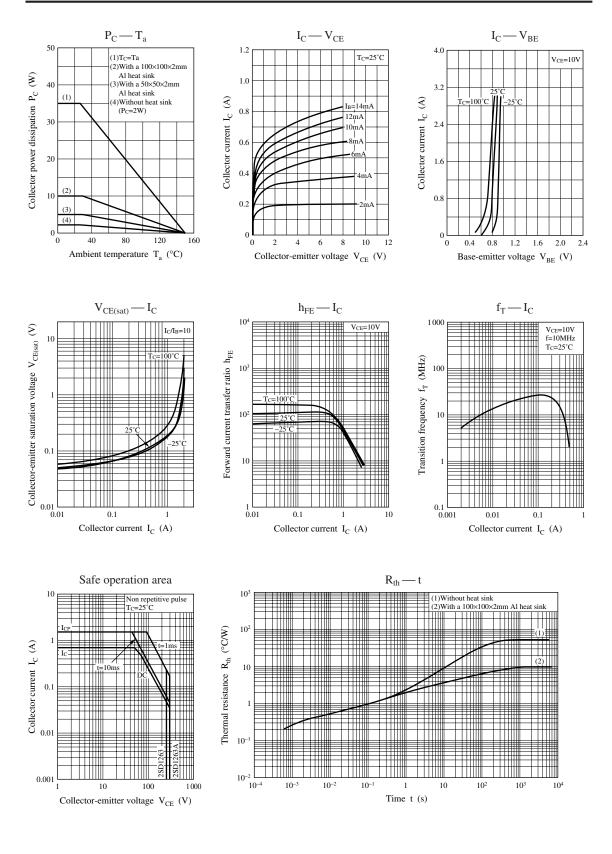
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage	2SD1263	V _{CEO}	$I_{\rm C} = 30 \text{ mA}, I_{\rm B} = 0$	250			V
(Base open)	2SD1263A			300			
Base-emitter voltage		V _{BE}	$V_{CE} = 10 \text{ V}, I_C = 1 \text{ A}$			1.5	V
Collector-emitter cutoff	2SD1263	I _{CES}	$V_{CE} = 350 \text{ V}, V_{BE} = 0$			1	mA
current (E-B short)	2SD1263A		$V_{CE} = 400 \text{ V}, V_{BE} = 0$			1	
Collector-emitter cutoff	2SD1263	I _{CEO}	$V_{CE} = 150 \text{ V}, I_B = 0$			1	mA
current (Base open)	2SD1263A		$V_{CE} = 200 \text{ V}, I_B = 0$			1	
Emitter-base cutoff current (Collector open)		I _{EBO}	$V_{EB} = 5 V, I_C = 0$			1	mA
Forward current transfer ratio		h _{FE1} *	$V_{CE} = 10 \text{ V}, I_C = 0.3 \text{ A}$	40		250	
		h _{FE2}	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ A}$	10			
Collector-emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = 1 \text{ A}, I_{\rm B} = 0.2 \text{ A}$			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}	$V_{CC} = 50 V$		2.0		μs
Fall time		t _f			0.5		μs

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Rank classification

Rank	R	Q	Р
$h_{\rm FE1}$	40 to 90	70 to 150	120 to 250

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