Power Transistors

Panasonic

2SD1263, 2SD1263A

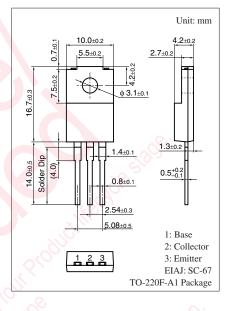
Silicon NPN triple diffusion planar type

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

Absolute Maximum Ratings $T_a = 25^{\circ}C$							
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 (Coll	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	°CO			



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

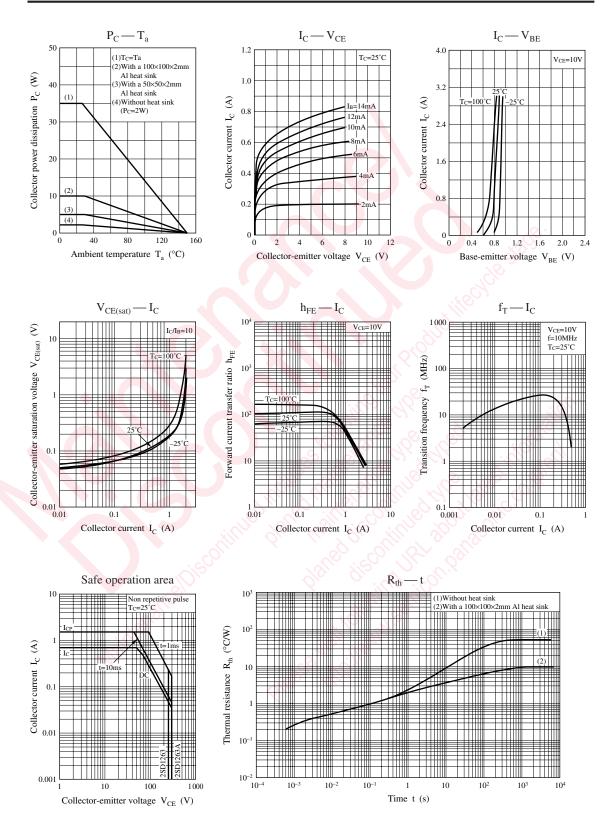
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage	2SD1263	V _{CEO}	$I_{\rm C} = 30 \text{ mA}, I_{\rm B} = 0$	250	0° . C	<u>i</u>	V
(Base open)	2SD1263A	, e		300	-01		
Base-emitter voltage		V _{BE}	$V_{CE} = 10 \text{ V}, I_C = 1 \text{ A}$	S	32	1.5	V
Collector-emitter cutoff	2SD1263	I _{CES}	$V_{CE} = 350 \text{ V}, V_{BE} = 0$	0		1	mA
current (E-B short)	2SD1263A		$V_{CE} = 400 \text{ V}, V_{BE} = 0$	0.7		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 (Col	lector 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)}	$I_{C} = 1 \text{ A}, I_{B} = 0.2 \text{ A}$			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

$\label{eq:complex} This \mbox{ product complies with the RoHS Directive (EU 2002/95/EC).} \\ \mbox{2SD1263, 2SD1263A}$

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