# 2SD2479

### Silicon NPN epitaxial planar type

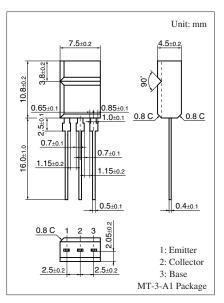
For low-frequency amplification

#### Features

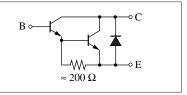
- $\bullet$  High forward current transfer ratio  $h_{FE}$
- Allowing supply with the radial taping

Absolute Maximum matings $T_a = 25$ C							
Parameter	Symbol	Rating	Unit				
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	120	V				
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	100	V				
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	5	V				
Collector current	I <sub>C</sub>	2	А				
Peak collector current	I <sub>CP</sub>	3	А				
Collector power dissipation	P <sub>C</sub>	1.5	W				
Junction temperature	Tj	150	°C				
Storage temperature	T <sub>stg</sub>	-55 to +150	°C				





#### Internal Connection



Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{C} = 100 \ \mu A, I_{E} = 0$	120			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = 1 \text{ mA}, I_{\rm B} = 0$	100			V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_E = 100 \ \mu A, I_C = 0$	5			V
Collector-base cutoff current (Emitter open)	I <sub>CBO</sub>	$V_{CB} = 25 \text{ V}, I_E = 0$			0.1	μΑ
Emitter-base cutoff current (Collector open)	I <sub>EBO</sub>	$V_{EB} = 4 V, I_C = 0$			1	μΑ
Forward current transfer ratio *1, 2	h <sub>FE</sub>	$V_{CE} = 10 \text{ V}, I_C = 1 \text{ A}$	4 0 0 0		40 000	_
Collector-emitter saturation voltage *1	V <sub>CE(sat)</sub>	$I_{C} = 1 A, I_{B} = 1 mA$			1.5	V
Base-emitter saturation voltage *1	V <sub>BE(sat)</sub>	$I_{C} = 1 A, I_{B} = 1 mA$			2	V
Transition frequency	f <sub>T</sub>	$V_{CB} = 10 \text{ V}, I_E = -50 \text{ mA}, f = 200 \text{ MHz}$		150		MHz

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

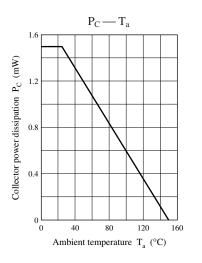
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

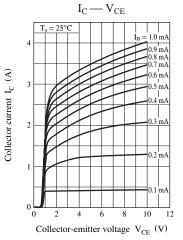
2. \*1: Pulse measurement

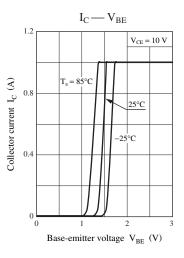
\*2: Rank classification

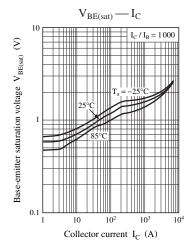
Rank	Q	R	S
h <sub>FE</sub>	4000 to 10000	8000 to 20000	16000 to 40000

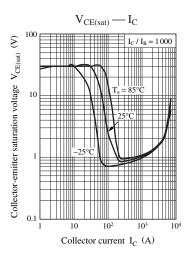
### Panasonic

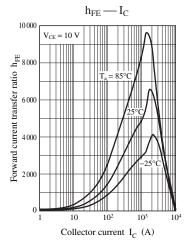


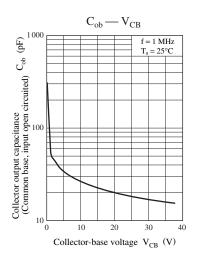












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