Unit: mm

3.2±0.2

1.76±0.1

1: Emitter

TO-126B-A1 Package

2: Collector 3: Base

0.5±0.1

1.6±0.2 2.3±0.2

2SC2258

Silicon NPN triple diffusion planar type

For high breakdown voltage general amplification 8.0+0.5 Features • High collector-emitter voltage (Base open) V_{CEO} 3.8±0.3 • High transition frequency f_T • TO-126B package which requires no insulation plate for installation to the heat sink Absolute Maximum Ratings $T_a = 25^{\circ}$ Parameter Symbol Rating Unit Collector-base voltage (Emitter open) 250 V V_{CBO}

V_{CEO} 250 Collector-emitter voltage (Base open) V 7 v Emitter-base voltage (Collector open) V_{EBO} 100 Collector current I_C mA Peak collector current I_{CP} 150 mA 1.2 *1 w Collector power dissipation P_C Junction temperature Ti Storage temperature T_{stg}

Note) *1: Without heat sink *2 :With a $100 \times 100 \times 2$ mm Al heat sink

Electrical Characteristics $T_a = 25^{\circ}$

Parameter	Symbol	Conditions Min 1	Гур Мах	Unit
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 0.1 {\rm mA}, t_{\rm O} = 0$		V
Base-emitter voltage	V _{BE}	$V_{CE} = 20$ V, $I_C = 40$ mA	1.2	V
Collector-emitter cutoff current	I _{CER}	$V_{CE} = 250 \text{ V}, R_{BE} = 100 \text{ k}\Omega$	100	μΑ
(Resistor between B and B)				
Forward current transfer ratio	h _{FE1}	$V_{CE} = 20 \text{ V}, I_C = 40 \text{ mA} $		—
all	h _{FE2}	$V_{CE} = 50 \text{ V} \cdot I_C = 5 \text{ mA}$ 30		
Collector-entitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 50 \text{ mA}, I_{\rm B} = 5 \text{ mA}$	1.2	V
Transition frequency	f _T	$V_{cb} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$ 1	.00	MHz
Collector output capacitance	C _{ob}	$N_{CB} = 50 \text{ V}, I_E = 0, f = 1 \text{ MHz}$	3.0 4.5	pF
(Common base, input open circuited)		9 ⁻		

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

Panasonic



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