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### Transistor

# 2SD0662, 2SD0662B (2SD662, 2SD662B)

Silicon NPN epitaxial planer type

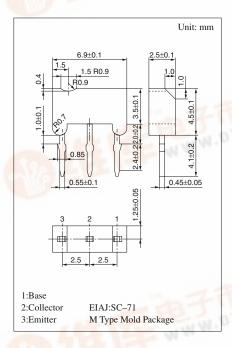
For high breakdown voltage general amplification

#### Features

- High collector to emitter voltage V<sub>CEO</sub>.
- High transition frequency f<sub>T</sub>.
- M type package allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board.

Parameter		Symbol	Ratings	Unit	
Collector to	2SD0662	V	250	v	
base voltage	2SD0662B	V <sub>CBO</sub>	400		
Collector to	2SD0662	V	200	V	
emitter voltage	2SD0662B	V <sub>CEO</sub>	400		
Emitter to base voltage		$V_{EBO}$	5	V	
Peak collector current		I <sub>CP</sub>	100	mA	
Collector current		I <sub>C</sub>	70	mA	
Collector power dissipation		P <sub>C</sub>	600	mW	
Junction temperature		Tj	150	°C	
Storage temperature		T <sub>stg</sub>	-55 ~ +150	°C	

#### Absolute Maximum Ratings (Ta=25°C)



#### Electrical Characteristics (Ta=25°C)

Parameter Sy		Symbol	Conditions	min	typ	max	Unit
Collector cutoff current		I <sub>CEO</sub>	$V_{CE} = 100V, I_B = 0$			2	μA
Collector to emitter	2SD0662	<b>X</b> 7		200	. 63	2 65	v
voltage	2SD0662B	V <sub>CEO</sub>	$I_{\rm C} = 100\mu A, I_{\rm B} = 0$	400		E W	
Emitter to base voltage		V <sub>EBO</sub>	$I_{\rm E} = 10\mu A, I_{\rm C} = 0$	5			V
Forward current	2SD0662	h <sub>FE</sub> *	$V_{CE} = 10V, I_C = 5mA$	30		220	
transfer ratio	2SD0662B			30		150	]
Collector to emitter saturation voltage V <sub>CE(sat)</sub>		V <sub>CE(sat)</sub>	$I_{\rm C} = 50 {\rm mA}, I_{\rm B} = 5 {\rm mA}$			1.2	V
Transition frequency f <sub>T</sub>		f <sub>T</sub>	$V_{CB} = 10V, I_E = -10mA, f = 200MHz$	50	80		MHz
Collector output capacitance C <sub>ob</sub>		C <sub>ob</sub>	$V_{CB} = 10V, I_E = 0, f = 1MHz$		5	10	pF

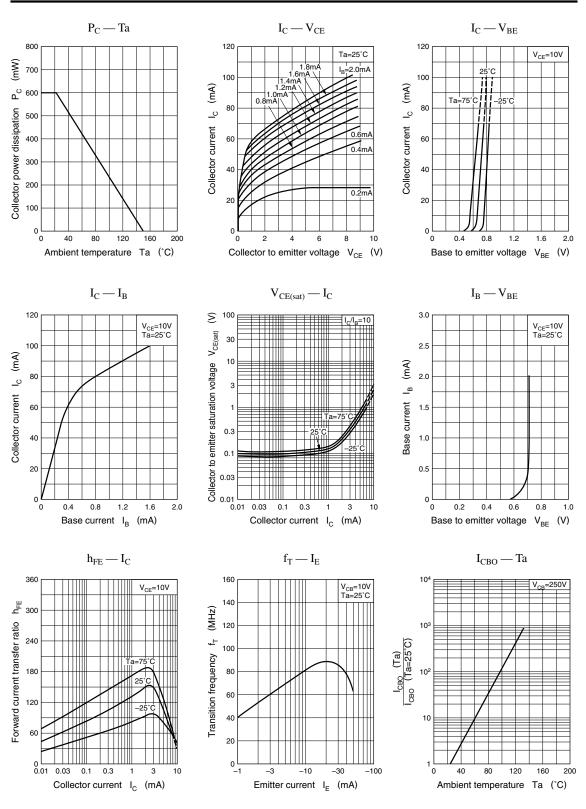
# <sup>\*</sup>h<sub>FE</sub> Rank classification



Note.) The Part numbers in the Parenthesis show conventional part number.

# Transistor

# 2SD0662, 2SD0662B



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