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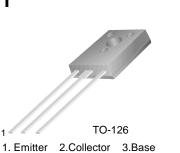
BD675A/677A/679A/681

Medium Power Linear and Switching Applications

Medium Power Darlington TR

• Complement to BD676A, BD678A, BD680A and BD682 respectively

NPN Epitaxial Silicon Transistor



BD675A/677A/679A/681

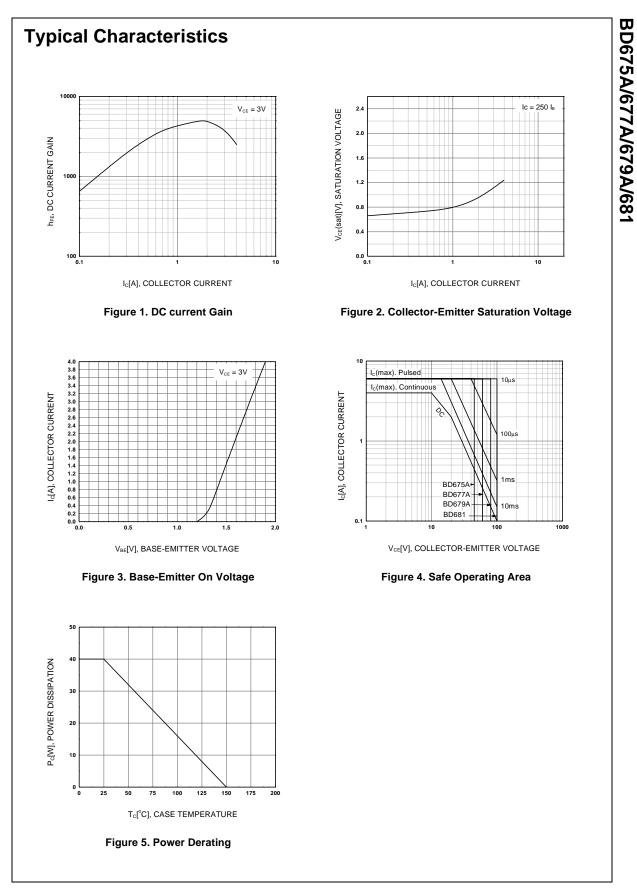
Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Pa	rameter	Value	Units
V _{CBO}	Collector-Base Voltage	: BD675A	45	V
	_	: BD677A	60	V
		: BD679A	80	V
		: BD681	100	V
V _{CEO}	Collector-Emitter Voltage	: BD675A	45	V
	_	: BD677A	60	V
		: BD679A	80	V
		: BD681	100	V
V _{EBO}	Emitter-Base Voltage		5	V
I _C	Collector Current (DC)	4	А	
I _{CP}	*Collector Current (Pulse)		6	А
I _B	Base Current		100	mA
P _C	Collector Dissipation (T _C =25°C)		40	W
TJ	Junction Temperature		150	°C
T _{STG}	Storage Temperature		- 65 ~ 150	°C

Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

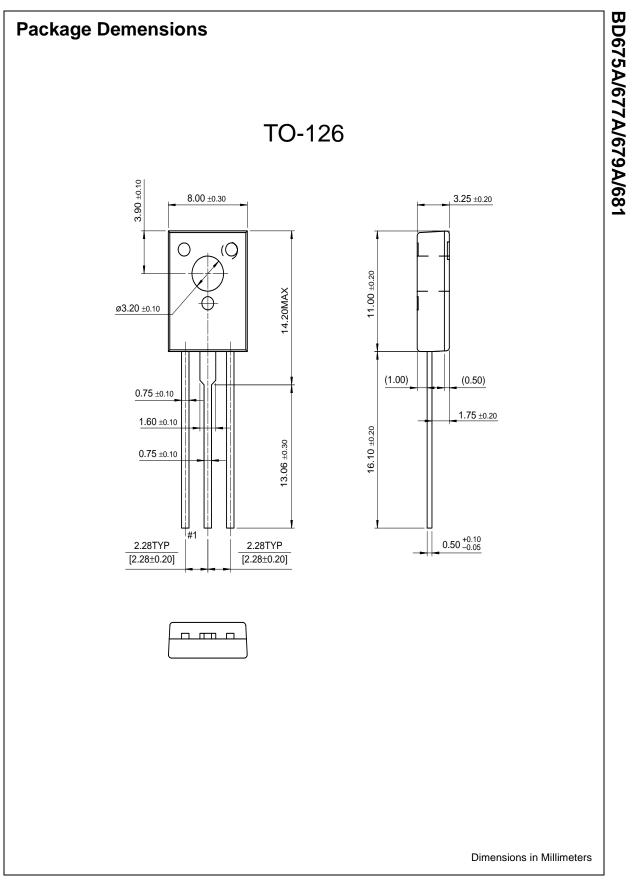
Symbol	Param	eter	Test Condition	Min.	Тур.	Max.	Unit
V _{CEO} (sus)	*Collector-Emitter Sustaining Voltage						
0101		: BD675A	$I_{C} = 50 \text{mA}, I_{B} = 0$	45			V
		: BD677A	0 10	60			V
		: BD679A		80			V
		: BD681		100			V
I _{CBO}	Collector-Base Voltage	: BD675A	V _{CB} = 45V, I _E = 0			200	μA
		: BD677A	$V_{CB} = 60V, I_E = 0$			200	μA
		: BD679A	$V_{CB} = 80V, I_E = 0$			200	μA
		: BD681	$V_{CB} = 100V, V_{BE} = 0$			200	μA
I _{CEO}	Collector Cut-off Current	: BD675A	V _{CE} = 45V, V _{BE} = 0			500	μA
		: BD677A	$V_{CE} = 60V, V_{BE} = 0$			500	μA
		: BD679A	$V_{CE} = 80V, V_{BE} = 0$			500	μA
		: BD681	$V_{CE} = 100V, V_{BE} = 0$			500	μA
I _{EBO}	Emitter Cut-off Current		$V_{EB} = 5V, I_{C} = 0$			2	m/
h _{FE}	* DC Current Gain	: BD675A/677A/679A	$V_{CE} = 3V, I_{C} = 2A$	750			
		: BD681	$V_{CE} = 3V, I_{C} = 1.5A$	750			
V _{CE} (sat)	* Collector-Emitter Saturation Voltage						
		: BD675A/677A/679A	I _C = 2A, I _B = 40mA			2.8	V
		: BD681	I _C = 1.5A, I _B = 30mA			2.5	V
V _{BE} (on)	* Base-Emitter ON Voltage	e : BD675A/677A/679A	$V_{CE} = 3V, I_{C} = 2A$			2.5	V
		: BD681	V _{CE} = 3V, I _C = 1.5A			2.5	V

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Телефон: 8 (812) 309 58 32 (многоканальный) **Факс:** 8 (812) 320-02-42 **Электронная почта:** <u>org@eplast1.ru</u> **Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.