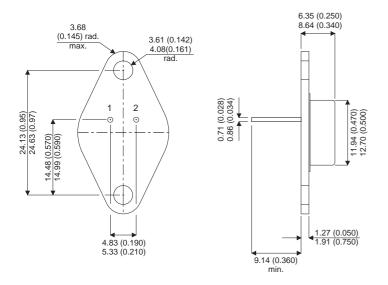


MECHANICAL DATA

Dimensions in mm



PNP POWER TRANSISTOR

TO66 Package. (TO-213AA)

Pin 1 – Base Pin 2 – Emitter Case - Collector

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

V_{CBO}	Collector – Base Voltage (Open Emitter)	- 160V		
V_{CEO}	Collector - Emitter Voltage (Open Base)	- 140V		
V_{CER}	Collector – Emitter Voltage $R_{BE} = 100\Omega$	- 150V		
V_{CEX}	Collector – Base Voltage V _{BE} = 1.5V	- 160V		
V_{EBO}	Emitter – Base Voltage	- 7V		
$I_{\mathbb{C}}$	Collector Current	-3A		
I _{CM}	Peak Collector Current tp = 1s	-4A		
I_{B}	Base Current	-2A		
P_{tot}	Power Dissipation t _{case} = 25°C	25W		
T_J	Maximum Junction Temperature	200°C		
T_{STG}	Storage Temperature	−65 to 200°C		
R _{th-(j-c)}	Junction to Case.	7°C / W		

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

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BDX16A

ELECTRICAL CHARACTERISTICS (T_{case} = 25°C unless otherwise stated)

	Parameter	Test Conditions		Min.	Тур.	Мах.	Unit
I _{CEX}	Collector Emitter Cut Off Current	V _{CE} = -140V	V _{BE} = 1.5V			-1	mA
			T _{case} = 150°C			-5	
V _{(BR)CEO*}	Collector Emitter Breakdown Voltage	$I_C = -100 \text{mA}$	I _B = 0	-140			V
V _{(BR)CER*}	Collector Emitter Breakdown Voltage	$I_C = -1mA$	$R_{BE} = 100\Omega$	-150			
V _{(BR)CEX*}	Collector Emitter Base Breakdown	$I_C = -1mA$		-160			V
	Voltage	V _{BE} = - 1.5V					
h _{21E} *	Static Forward Current Transfer Ratio	V _{CE} = - 4V	I _C = - 0.5A	20		250	_
V _{CE(sat)}	Collector Emitter Saturation Voltage	I _C = - 0.5A	$I_B = -0.05A$			-1	V
V_{BE}	Base Emitter Voltage	V _{CE} = - 4V	I _C = - 0.5A			-1.7	V
I _{EBO}	Emitter Base Cutt-off Current	V _{CB} = -7V	I _C = 0			-1	mA
f _T	Transition Frequency	V _{CE} = -10V	I _C = - 0.2A	4		MHz	
		f = 1MHz			7		1711 12

^{*} Pulse test t_p = 300 μs , δ < 2%

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