BD433 BD434 BD435 BD436 BD437 BD438

THERMAL DATA

R _{thj-case}	Thermal Resistance Junction-case	Max	3.5	°C/W	
R _{thj-amb}	Thermal Resistance Junction-ambient	Max	100	°C/W	

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

Symbol	Parameter	Test Conditions		Min.	Тур.	Max.	Unit
Ісво	Collector Cut-off Current (I _E = 0)	for BD433/434 for BD435/436 for BD437/438	$V_{CB} = 32 V$			100 100 100	μΑ μΑ μΑ
I _{CES}	Collector Cut-off Current (V _{BE} = 0)	for BD433/434 for BD435/436 for BD437/438	$V_{CE} = 32 V$			100 100 100	μΑ μΑ μΑ
I _{EBO}	Emitter Cut-off Current $(I_C = 0)$	V _{EB} = 5 V				1	mA
$V_{CEO(sus)^*}$	Collector-Emitter Sustaining Voltage (I _B = 0)	I _C = 100 mA	for BD433/434 for BD435/436 for BD437/438	22 32 45			V V V
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	I _C = 2 A	I _B = 0.2 A for BD433/434 for BD435/436 for BD437/438		0.2 0.2 0.2	0.5 0.5 0.6	V V V
V _{BE} *	Base-Emitter Voltage	I _C = 10 mA I _C = 2 A	V _{CE} = 5 V V _{CE} = 1 V for BD433/434 for BD435/436 for BD437/438		0.58	1.1 1.1 1.2	V V V V
hfe*	DC Current Gain	I _C = 10 mA I _C = 500 mA I _C = 2 A	$V_{CE} = 5 V$ for BD433/434 for BD435/436 for BD437/438 $V_{CE} = 1 V$ $V_{CE} = 1 V$ for BD433/434 for BD435/436 for BD437/438	40 40 30 85 50 50 40	130 130 130 140		
hfe1/hfe2*	Matched Pair	I _C = 500 mA	$V_{CE} = 1 V$			1.4	
f⊤	Transition frequency	I _C = 250 mA	$V_{CE} = 1 V$	3			MHz

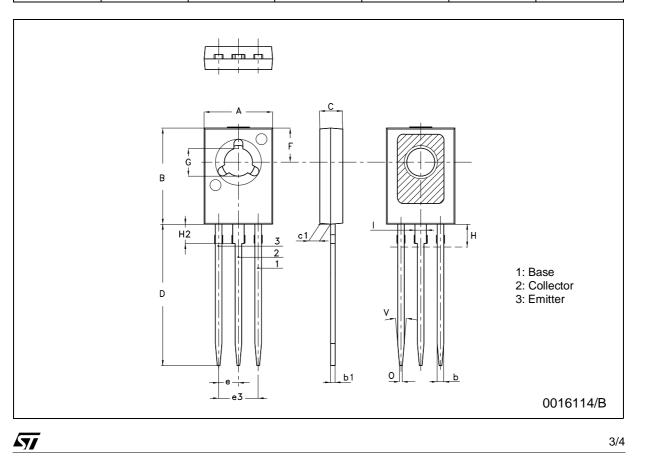
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 \ast Pulsed: Pulse duration = 300 μs , duty cycle 1.5 %

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DIM.	mm		inch			
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
А	7.4		7.8	0.291		0.307
В	10.5		10.8	0.413		0.425
b	0.7		0.9	0.028		0.035
b1	0.40		0.65	0.015		0.025
С	2.4		2.7	0.094		0.106
c1	1.0		1.3	0.039		0.051
D	15.4		16.0	0.606		0.630
е		2.2			0.087	
e3		4.4			0.173	
F		3.8			0.150	
G	3		3.2	0.118		0.126
Н			2.54			0.100
H2		2.15			0.084	
I		1.27			0.05	
0		0.3			0.011	
V		10 [°]			10 [°]	





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