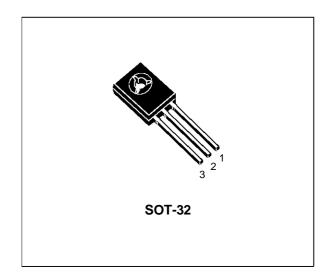


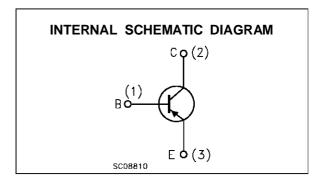
SILICON PNP TRANSISTOR

■ SGS-THOMSON PREFERRED SALESTYPE

DESCRIPTION

The BD234 is a silicon epitaxial-base PNP power transistor in Jedec SOT-32 plastic package inteded for use in medium power linear and switching applications.





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage (I _E = 0)	-45	V
V _{CER}	Collector-Emitter Voltage ($R_{BE} = 1K\Omega$)	-45	V
V_{CEO}	Collector-Emitter Voltage (I _B = 0)	-45	V
V _{EBO}	Emitter-Base Voltage (I _C = 0)	-5	V
Ic	Collector Current	-2	Α
I _{CM}	Collector Peak Current	-6	Α
P _{tot}	Total Dissipation at T _c ≤ 25 °C	25	W
Tstg	Storage Temperature	-65 to 150	°C
Tj	Max. Operating Junction Temperature	150	°C

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THERMAL DATA

R _{thj-case} -	Thermal Resistance Junction-case	Max	5	°C/W	
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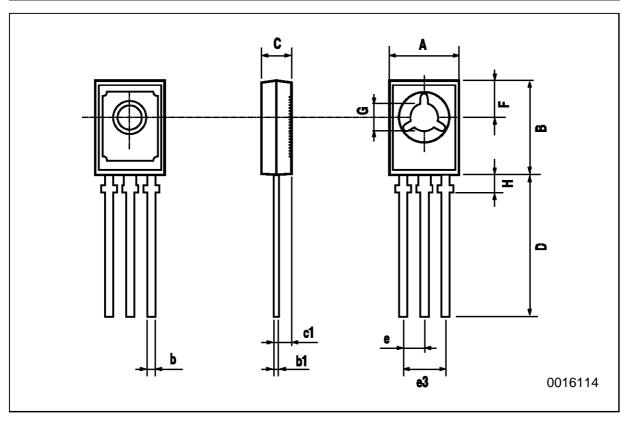
ELECTRICAL CHARACTERISTICS ($T_{case} = 25$ °C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
I _{CBO}	Collector Cut-off Current (I _E = 0)	$V_{CB} = -45 \text{ V}$ $V_{CB} = -45 \text{ V}$ $T_{c} = 150 ^{\circ}\text{C}$			-0.1 -2	mA mA
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EB} = -5 V			-1	mA
V _{CEO(sus)} *	Collector-Emitter Sustaining Voltage	I _C = -100 mA	-45			V
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	$I_C = -1 A$ $I_B = -0.1 A$			-0.6	V
V _{BE} *	Base-Emitter Voltage	I _C = -1 A V _{CE} = -2 V			-1.3	٧
h _{FE} *	DC Current Gain	I _C = -150 mA	40 25			
f _T	Transition frequency	$I_{C} = -250 \text{ mA}$ $V_{CE} = -10 \text{ V}$	3			MHz
h _{FE1} /h _{FE2} *	Matched Pairs	I _C = -150 mA		1.6		

^{*} Pulsed: Pulse duration = 300 μs, duty cycle 1.5 %

SOT-32 MECHANICAL DATA

DIM.	mm			inch			
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
Α	7.4		7.8	0.291		0.307	
В	10.5		10.8	0.413		0.445	
b	0.7		0.9	0.028		0.035	
b1	0.49		0.75	0.019		0.030	
С	2.4		2.7	0.04		0.106	
c1		1.2			0.047		
D		15.7			0.618		
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	



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