

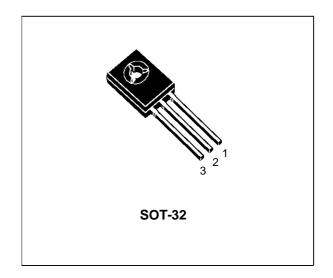
COMPLEMETARY SILICON POWER TRANSISTORS

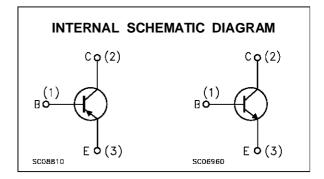
■ SGS-THOMSON PREFERRED SALESTYPES

DESCRIPTION

The MJE340 is a silicon epitaxial planar NPN transistor intended for use in medium power linear and switching applications. It is mounted in SOT-32.

The complementary PNP type is MJE350.





ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CEO}	Collector-Emitter Voltage (I _B = 0)	300	V
V _{CBO}	Collector-Base Voltage (IC = 0)	3	V
Ic	Collector Current	0.5	Α
P _{tot}	Total Power Dissipation at T _{case} ≤ 25 °C	20.8	W
T _{stg}	Storage Temperature	-65 to 150	°C
Tj	Max Operating Junction Temperature	150	°C

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THERMAL DATA

R _{thj-case} 1	Thermal Resistance Junction-case	Max	6.0	°C/W
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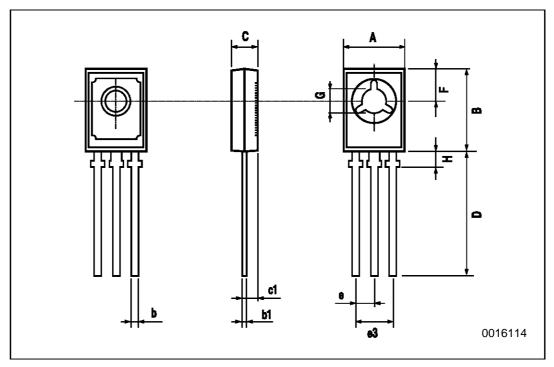
ELECTRICAL CHARACTERISTICS ($T_{case} = 25$ ^{o}C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
I _{CBO}	Collector Cut-off Current (I _E = 0)	V _{CB} = 300 V			100	μΑ
I _{EBO}	Emitter Cut-off Current (Ic = 0)	V _{EB} = 3 V			100	μΑ
V _{CEO(sus)} *	Collector-Emitter Sustaining Voltage (I _B = 0)	I _C = 1 mA	300			V
h _{FE}	DC Current Gain	$I_C = 50 \text{ mA}$ $V_{CE} = 1$	0 V 30		240	

^{*} Pulsed: Pulse duration = 300μs, duty cycle ≤ 2%

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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