

isc Silicon NPN Power Transistor

BD107

 Collector V_{(BR)CE} Minimu perform APPLICA Designe 	ed for driver and output stages ar	Cond high		PIN 1. BASE 1 2. BMITTER 3. COLLECTOR/ TO-66 packag
SYMBOL	PARAMETER	VALUE	UNIT	V
SYMBOL Vcbo	PARAMETER Collector-Base Voltage	65	V	
Vсво	Collector-Base Voltage	65	V	mm DIM MIN MAX A 31.40 31.80
V _{CBO}	Collector-Base Voltage Collector-Emitter Voltage	65 65	V V	mm DIM MIN MAX A 31.40 31.80 B 17.30 17.90 C 6.70 7.10 D 0.70 0.90
V _{CBO} V _{CEO} V _{EBO}	Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage	65 65 5	V V V	mm DIM MIN MAX A 31.40 31.80 B 17.30 17.90 C 6.70 7.10 D 0.70 0.90 E 1.40 1.80 G 5.08 H
Vcbo Vceo Vebo	Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current-Continuous Collector Power Dissipation	65 65 5 2.5	V V V A	mm DIM MIN MAX A 31.40 31.80 B 17.30 17.90 C 6.70 7.10 D 0.70 0.90 E 1.40 1.80 G 5.08 5.08



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE(SUS)}	Collector-Emitter Saturation Voltage	I _C = 10mA ; I _B = 0			60	V
Vce(sat)	Base-Emitter Saturation Voltage	I _C = 2.5A; V _{CE} = 0.25A			1.0	V
Ісво	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			0.5	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} =5V; I _C = 0			0.5	μA
hfe-1	DC Current Gain	Ic= 0.5A; Vce= 2V	50		300	
h _{FE-2}	DC Current Gain	Ic= 1A ; V _{CE} = 2V	35			

h_{FE-1} Classifications

A	В
50-150	100-300

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