

Features

- ◆ PNP transistor High current output up to 5A
- ◆ Low Saturation Voltage



SOT-89

Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	Vсво	-60	V
Collector to Emitter Voltage	VCEO	-60	V
Emitter to Base Voltage	VEBO	-6	V
Collector Current to Continuous	Ic	-5	Α
Collector Dissipation	Pc	1.4-1.6	W
Junction Temperature	TJ	150	$^{\circ}$ C
Storage Temperature	Tstg	-55 to 150	°C

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	Vсво	Ic=-100uA ,IE=0	-60		2),,	٧
Collector-emitter breakdown voltage	VCEO	Ic= -10 mA , IB=0	-60			V
Emitter-base breakdown voltage	VEBO	IE= -100 uA ,IC=0	-6			V
Collector cut-off current	Ісво	VcB=-60 V , IE=0			-100	μΑ
Emitter cut-off current	IEBO	VEB=-6V , IC=0	D		-100	μΑ
DC current gain	hFE	VcE= -2V, Ic= -1A	160		320	
		Vc=-2V, Ic= -100mA	80			
Collector-emitter saturation voltage	VCE(sat)	Ic=-2A, IB=- 0.2A			-320	mV
Base-emitter saturation voltage	VBE(sat)	Ic=-2A, I _B = -0.2A			-1.2	V
Transition frequency	f _T	Vc=-10V, Ic=-0.1mA		130		MHz



Figure 1. DC Current Gain

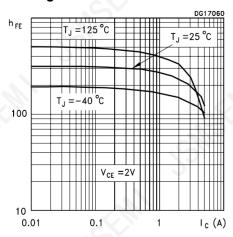


Figure 2. DC Current Gain

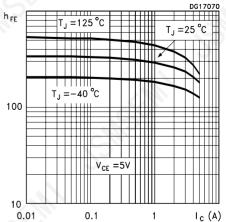
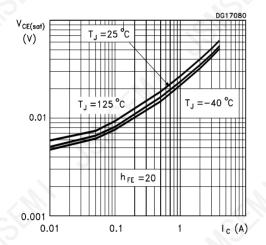


Figure 3. Collector Emitter Saturation Voltage Figure 4. Base Emitter Saturation Voltage



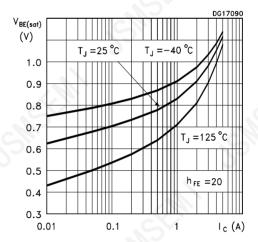




Figure 5. Resistive Load Switching Times

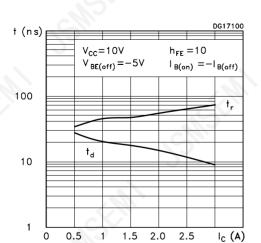


Figure 6. Resistive LoadSwitching Times

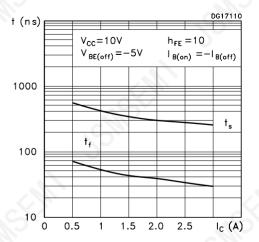
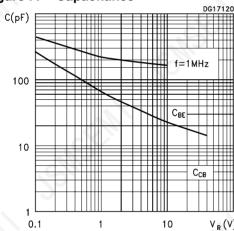
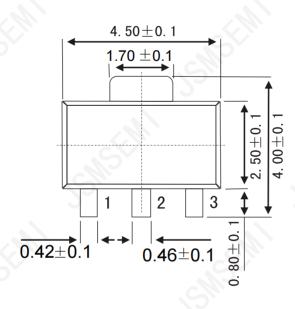


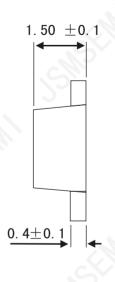
Figure 7. Capacitance

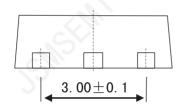


SOT-89

Unit:mm







- 1.Base
- 2.Collector
- 3.Emitter



Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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