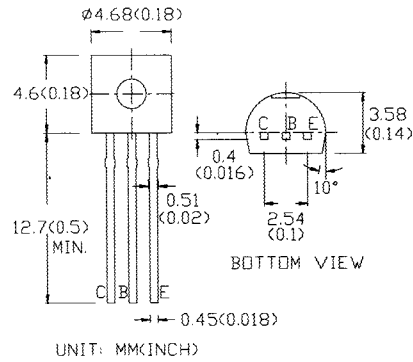


TO-92A

DESCRIPTION

MPS8599 is PNP silicon transistor designed for general purpose amplifier applications for audio circuits.



ABSOLUTE MAXIMUM RATINGS

Collector-Base Voltage	VCBO	80V
Collector-Emitter Voltage	VCEO	80V
Emitter-Base Voltage	VEBO	5V
Collector Current	IC	200mA
Continuous Power Dissipation	Pd	350mW
Operating & Storage Junction Temperature	Tj, Tstg	-55 to +150°C

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN	MAX	UNIT	CONDITIONS
Collector-Emitter Breakdown Voltage	LVCEO	80		V	IC=0.5mA IB=0
Collector-Base Breakdown Voltage	BVCBO	80		V	
Emitter-Base Breakdown Voltage	BVEBO	5		V	IE=10µA IC=0
Collector Cutoff Current	ICEO		1	µA	VCE=60V IB=0
Collector Cutoff Current	ICBO		100	nA	VCB=80V IE=0
Emitter Cutoff Current	IEBO		100	nA	VEB=5V IC=0
D.C. Current Gain	HFE*	100	300		IC=1mA VCE=5V
		100			IC=10mA VCE=5V
		75			IC=100mA VCE=5V
Collector-Emitter Saturation Voltage	VCE(sat)		0.4	V	IC=100mA IB=5mA
			0.3	V	IC=100mA IB=10mA
Base-Emitter Voltage	VBE		0.8	V	IC=10mA VCE=5V
Current Gain Bandwidth Product	fT	150		MHz	IC=10mA VCE=5V f=100MHz
Output Capacitance	Cob		8	pF	VCB=5V IE=0 f=1MHz
Input Capacitance	Cib		30	pF	VEB=0.5V IC=0 f=1MHz

* Pulse test : pulse width <300µS, duty cycle < 2%.



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