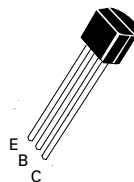


PNP SILICON PLANAR MEDIUM POWER TRANSISTOR

ISSUE 2 – NOVEMBER 94

MPS6651



TO92

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-25	V
Collector-Emitter Voltage	V_{CEO}	-25	V
Emitter-Base Voltage	V_{EBO}	-4	V
Continuous Collector Current	I_C	-1	A
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	625	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-25			V	$I_C = -100\mu A, I_E = 0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-25			V	$I_C = -1mA, I_B = 0^*$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-4			V	$I_E = -10\mu A, I_C = 0$
Collector Cut-Off Current	I_{CBO}			-0.1	μA	$V_{CB} = -25V, I_E = 0$
Collector Cut-Off Current	I_{CEO}			-0.1	μA	$V_{CE} = -25V$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.6	V	$I_C = -1A, I_B = -100mA^*$
Base-Emitter Turn-On Voltage	$V_{BE(on)}$			-1.2	V	$I_C = -500mA, V_{CE} = -1V^*$
Static Forward Current Transfer Ratio	h_{FE}	50 50 30				$I_C = -100mA, V_{CE} = -1V^*$ $I_C = -500mA, V_{CE} = -1V^*$ $I_C = -1A, V_{CE} = -1V^*$
Transition Frequency	f_T	100			MHz	$I_C = -50mA, V_{CE} = -10V$ $f = 100MHz$

*Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$