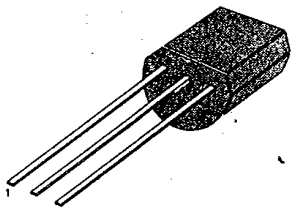
MPS6517 PNP EPITAXIAL SILICON TRANSISTOR

T-29-21

AMPLIFIER TRANSISTOR

- **Collector-Emitter Voltage: V_{CEO}=40V**
- **Collector Dissipation: P_C (max)=625mW**

TO-92



1. Emitter 2. Base 3. Collector

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage	V_{CEO}	40	V
Collector-Base Voltage	V_{CBO}	40	V
Emitter-Base Voltage	V_{EBO}	4	V
Collector Current	I_C	100	mA
Collector Dissipation	P_C	625	mW
Junction Temperature	T_J	150	°C
Storage Temperature	Tstg	−55~150	°C

• Refer to 2N3906 for graphs

ELECTRICAL CHARACTERISTICS (T_a=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Emitter Breakdown Voltage	BV_{CEO}	I_C=500μA, I_B=0	40			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I_E=10μA, I_C=0	4			V
Collector Cut-off Current	I_{CBO}	V_{CB}=30V, I_E=0			50	nA
DC Current Gain	h_{FE}	I_C=2mA, V_{CE}=10V	90		180	
		*I_C=100mA, V_{CE}=10V	60			
Collector-Emitter Saturation voltage	V_{CE} (sat)	I_C=50mA, I_B=5mA			0.5	V
Output Capacitance	Cob	V_{CB}=10V, I_E=0 f=100KHz			3.5	pF

*Pulse Test: Pulse Width≤300μs, Duty Cycle≤2%