

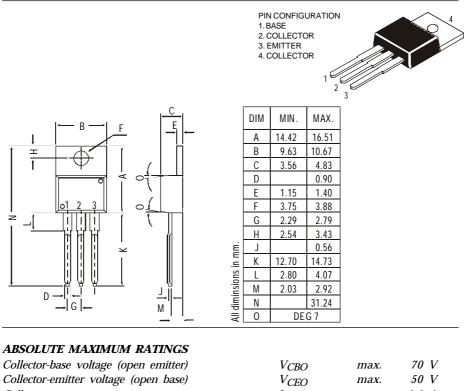


TO-220 Plastic Package

CSA748

CSA748 PNP PLASTIC POWER TRANSISTOR Complementary CSC1398

Medium Power Amplifier



conector-base vonage (open enniter)	VCBO	шал.	70 V
Collector-emitter voltage (open base)	V_{CEO}	max.	50 V
Collector current	I_C	max.	2.0 A
Total power dissipation up to $T_C = 25^{\circ}C$	P _{tot}	max.	15 W
Junction temperature	T_j	max.	150 °C
Collector-emitter saturation voltage	U		
$I_C = 1 \ A; \ I_B = 100 \ mA$	V _{CEsat}	max.	1.0 V
D.C. current gain			
$I_C = 1 A; V_{CE} = 5 V$	hFE	min.	50
		max.	220

RATINGS (at $T_A=25^{\circ}C$ unless otherwise specified)Limiting valuesCollector-base voltage (open emitter) V_{CBO} Collector-emitter voltage (open base) V_{CEO}

Collector-base voltage (open emitter)	V_{CBO}	max.	70 V
Collector-emitter voltage (open base)	V_{CEO}	max.	50 V
Emitter-base voltage (open collector)	V_{EBO}	max.	5.0 V
Collector current	I_C	max.	2.0 A

Collector current (Peak) Total power dissipation up to $T_C = 25^{\circ}C$ Junction temperature Storage temperature	I_{CP} P_{tot} T_j T_{stg}	max. max. max. -65 to -	3.0 A 15 W 150 °C +150 °C
CHARACTERISTICS			
$T_{amb} = 25^{\circ}C$ unless otherwise specified			
Collector cutoff current			
$I_E = 0; V_{CB} = 40 V$	I _{CBO}	max.	1 µA
$I_B = 0; V_{CE} = 20 V$	ICEO	max.	100 µA
Emitter cut-off current			
$I_C = 0; V_{EB} = 5 V$	I _{EBO}	max.	100 µA
Breakdown voltages			
$I_C = 10 \ mA; \ I_B = 0$	V_{CEO}	min.	50 V
$I_C = 1 \ mA; \ I_E = 0$	V_{CBO}	min.	70 V
$I_E = 1 mA; I_C = 0$	V_{EBO}	min.	5.0 V
Saturation voltages			
$I_C = 1 A; I_B = 100 mA$	V _{CEsat}	max.	1.0 V
$I_C = 2 A; I_B = 200 mA$	V _{BEsat}	max.	1.5 V
D.C. current gain			
$I_C = 100 \text{ mA}; V_{CE} = 5 V$	h_{FE}	min.	30
$I_C = 1 \ A; \ V_{CE} = 5 \ V^{**}$	h_{FE}	<i>min.</i> max.	50 220

** h_{FE} classification: P: 50-100 Q: 80-160 R: 120-220

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Data Sheet