

POWER TRANSISTORS



А1941 (9тw) PNP С5198 (9тw) NPN

TO- 3PN Non Isolated Plastic Package

Power Amplifier Applications.

ABSOLUTE MAXIMUM RATINGS (T_a=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT	
Collector Base Voltage	V _{CBO}	160	V	
Collector Emitter Voltage	V _{CEO}	160	V	
Emitter Base Voltage	V _{EBO}	5.0	V	
Collector Current	Ι _C	10	A	
Base Current	I _B	1	A	
Total Power Dissipation up to T _c =25ºC	P _{tot}	100	W	
Junction Temperature	Tj	150	°C	
Storage Temperature	T _{stg}	- 55 to +150	°C	

ELECTRICAL CHARACTERISTICS (T_a=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut Off Current	I _{CBO}	V _{CB} =160V, I _E =0			5.0	μΑ
Emitter Cut Off Current	I _{EBO}	V_{EB} =5V, I_{C} =0			5.0	μΑ
Collector Emitter Voltage	V _{CEO}	I_{C} =1mA, I_{B} =0	160			V
Collector Emitter Saturation Voltage	V _{CE (sat)}	I _C =7A, I _B =0.7A			2.0	V
Base Emitter On Voltage	V _{BE (on)}	I _C =5A, V _{CE} =5V			1.5	V
DC Current Gain	h _{FE}	*I _C =1A, V _{CE} =5V	55		200	
		I _C =5A, V _{CE} =5V	35			
Collector Output Capacitance	C _{ob}	I _E =0, V _{CB} =10V ,f=1MHz				
		A1941		480		pF
		C5198		220		
Transition Frequency	f _T	I _C =1A, V _{CE} =5V		30		MHz

* h _{FE} Classification	R :	R: 55 - 110		80 - 200
Marking	CDIL	CDIL	CDIL	CDIL
	A1941	C5198	A1941	C5198
	R	R	0	0

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Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

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