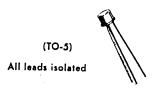
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2N398, 2N398 A (GERMANIUM)



PNP germanium transistor for high-voltage, audio-frequency applications.

MAXIMUM RATINGS

Rating	Symbol	2N398A	2N398	Unit
Collector-Base Voltage	v _{св}	105	105	Vdc
Collector-Emitter Voltage	V _{CEO}	105	105	Vdc
Emitter-Base Voltage	v _{EB}	50	; 50	Vdc
DC Collector Current	IC	200	100	mA
Emitter Current	I _E	200	100	mΛ
Junction Temperature	T _J	-65 to +100	-65 to +85	°C
Storage Temperature	Tstg	-65 to +100	-65 to +85	°C
Collector Dissipation @ 25°C	P _D	150	50	mW
Thermal Resistance, Junction to Ambient	θ JA max	0. 5	1. 2	°C/nıW

ELECTRICAL CHARACTERISTICS ($T_c = 25^{\circ}C$ unless otherwise noted)

Characteristics	Symbol	Min	Typical	Max	Unit
Collector-Base Cutoff Current (V _{CB} = 105 V, I _B = 0)	I _{СВО}	-	12. 0	50	μA
Collector-Base Cutoff Current (V _{CB} = 2.5 V, I _B = 0)	^I сво	-	5. 0	14	μA
Emitter-Base Cutoff Current (V _{EB} = 50 V, I _C = 0)	I _{EBO}	-	3. 0	50	μA
Collector-Emitter Saturation Voltage (I _C = 5 mAdc; I _B = 0. 25 mAdc)	V _{CE} (SAT)	-	0. 11	0. 35	Vdc
Base-Emitter Saturation Voltage (I _C = 5 mAdc; I _B = 0. 25 mAdc)	V _{BE} (SAT)		0. 22	0. 40	Vdc
DC Current Transfor Ratio (I _C = 5 mAdc; V _{CE} = 0.35 Vdc)	h _{FE}	20	1 65		-
DC Collector-Emitter Punch-Through Voltage (V_{CB} necessary to obtain V_{EB} of -1 V max, using instrument with $Z_{in} > 11$ megohm to measure V_{BE})	v _{pT}	105	160	-	Vdc
Small-Signal Short-Circuit, Forward Current Transfer Ratio Cutoff Frequency (V _{CB} = 6 Vdc; I _E = 1 mAdc)	fαb	-	1. 0	-	MHz



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