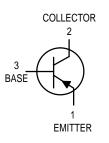
Amplifier Transistors PNP Silicon





LA733P

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	VCEO	-50	Vdc
Collector-Base Voltage	VCBO	-60	Vdc
Emitter-Base Voltage	VEBO	-5.0	Vdc
Collector Current — Continuous	IC	-100	mAdc
Total Device Dissipation @ T _A = 25°C Derate above 25°C	PD	350 2.8	mW mW/°C
Total Device Dissipation @ T _C = 25°C Derate above 25°C	PD	1.0 8.0	Watts mW/°C
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-55 to +150	°C

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Ambient	$R_{ hetaJA}$	357	°C/W
Thermal Resistance, Junction to Case	R _θ JC	125	°C/W

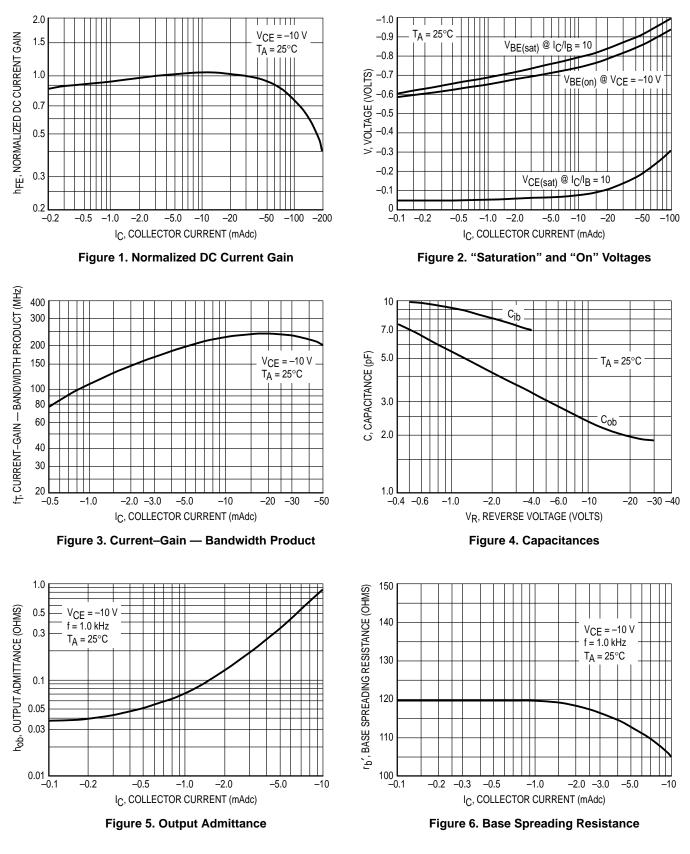
ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage ($I_C = -1.0 \text{ mAdc}, I_B = 0$)	V _(BR) CEO	-50	_	Vdc
Collector-Base Breakdown Voltage ($I_C = -10 \ \mu Adc, I_E = 0$)	V _(BR) CBO	-60	_	Vdc
Emitter-Base Breakdown Voltage ($I_E = -10 \ \mu Adc, I_C = 0$)	V _{(BR)EBO}	-5.0	_	Vdc
Collector–Emitter Leakage Current (V _{CB} = -60 Vdc)	ІСВО	_	-100	nAdc
Emitter–Base Leakage Current (V _{EB} = –5.0 Vdc, I _C = 0)	IEBO	_	-100	nAdc

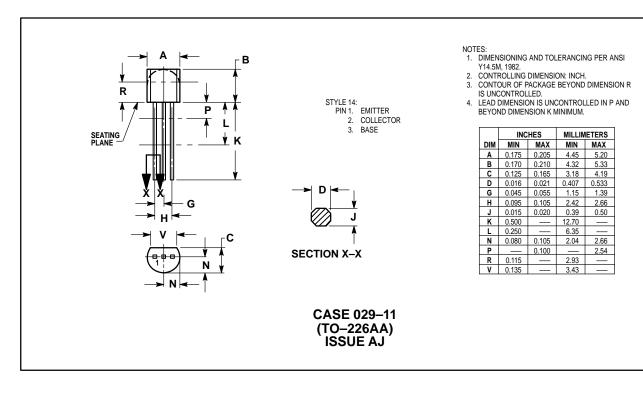
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ELECTRICAL CHARACTERISTICS (T_A = 25° C unless otherwise noted) (Continued)

Characteristic	Symbol	Min	Max	Unit
ON CHARACTERISTICS			•	•
DC Current Gain (I _C = -1.0 mAdc, V _{CE} = -6.0 Vdc)	hFE	200	400	_
Collector-Emitter Saturation Voltage $(I_C = -10 \text{ mAdc}, I_B = -1.0 \text{ mAdc})$	VCE(sat)	-	-0.3	Vdc
Base-Emitter Saturation Voltage ($I_C = -10$ mAdc, $I_B = -1.0$ mAdc)	VBE(sat)	-	-0.9	Vdc
Base–Emitter On Voltage ($I_C = -1.0 \text{ mAdc}, V_{CE} = -6.0 \text{ Vdc}$)	VBE(on)	-0.55	-0.68	Vdc
DYNAMIC CHARACTERISTICS	•		•	
Current-Gain — Bandwidth Product ($I_C = -10$ mAdc, $V_{CE} = -6.0$ Vdc, f = 20 MHz)	fT	100	450	MHz
Common–Base Output Capacitance ($V_{CB} = -60$ Vdc, $I_{C} = 0$, f = 1.0 MHz)	C _{ob}	-	7.0	pF
Noise Figure (I_C = -0.3 mAdc, V_CE = -6.0 Vdc, R_G = 10 k\Omega , f = 100 Hz)	NF	-	18	dB
Small–Signal Current Gain ($I_C = -2.0 \text{ mAdc}, V_{CE} = -5.0 \text{ Vdc}, f = 1.0 \text{ kHz}$)	h _{fe}	60	-	_



PACKAGE DIMENSIONS



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How to reach us:

USA/EUROPE/Locations Not Listed: Motorola Literature Distribution; P.O. Box 5405, Denver, Colorado 80217. 1–303–675–2140 or 1–800–441–2447

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ASIA/PACIFIC: Motorola Semiconductors H.K. Ltd.; 8B Tai Ping Industrial Park, 51 Ting Kok Road, Tai Po, N.T., Hong Kong. 852–26629298

JAPAN: Nippon Motorola Ltd.; SPD, Strategic Planning Office, 141,

4-32-1 Nishi-Gotanda, Shinagawa-ku, Tokyo, Japan. 81-3-5487-8488

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