

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TECHNICAL DATA SHEET

6 Lake Street, Lawrence, MA 01841 1-800-446-1158 / (978) 620-2600 / Fax: (978) 689-0803

Website: http://www.microsemi.com

NPN SILICON LOW POWER TRANSISTOR

Qualified per MIL-PRF-19500/376

DEVICES

2N2484UA 2N2484UB 2N2484UBC * JAN JANTX JANTXV JANS

LEVELS

ABSOLUTE MAXIMUM RATINGS ($T_C = +25^{\circ}C$ unless otherwise noted)

Parameters / Test Conditions	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	60	Vdc
Collector-Base Voltage	V_{CBO}	60	Vdc
Emitter-Base Voltage	V_{EBO}	6.0	Vdc
Collector Current	I_{C}	50	mAdc
Total Power Dissipation @ $T_A = +25^{\circ}C^{(1)}$	P_{T}	360	mW
Operating & Storage Junction Temperature Range	T_{J}, T_{stg}	-65 to +200	°C

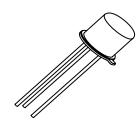
THERMAL CHARACTERISTICS

Parameters / Test Conditions	Symbol	Value	Unit
Thermal Resistance, Ambient-to-Case			
2N2484	$R_{ heta JA}$	325	°C/W
2N2484UA	TOJA	275	C, ,,
2N2484UB, UBC		350	

^{1.} See 19500/376 for Thermal Performance Curves.

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

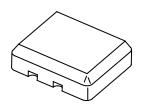
Parameters / Test Conditions	Symbol	Min.	Max.	Unit
OFF CHARACTERTICS				
	V _{(BR)CEO}	60		Vdc
Collector-Emitter Cutoff Current $V_{CE} = 45Vdc$	I _{CES}		5.0	ηAdc
Collector-Base Cutoff Current $V_{CB} = 45 \text{Vdc}$ $V_{CB} = 60 \text{Vdc}$	I_{CBO}		5.0 10	ηAdc μAdc
Collector-Emitter Cutoff Current $V_{CE} = 5.0 Vdc$	I_{CEO}		2.0	ηAdc



TO-18 (TO-206AA) 2N2484



2N2484UA



2N2484UB, UBC (UBC = Ceramic Lid Version)

^{*} Available to JANS quality level only.



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

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
OFF CHARACTERISTICS				
Emitter-Base Cutoff Current $V_{EB} = 5.0 Vdc$ $V_{EB} = 6.0 Vdc$	I_{EBO}		2.0 10	ηAdc μAdc
ON CHARACTERISTICS (2)				
Forward-Current Transfer Ratio $\begin{split} I_C &= 1.0 \mu A dc, \ V_{CE} = 5.0 V dc \\ I_C &= 10 \mu A dc, \ V_{CE} = 5.0 V dc \\ I_C &= 100 \mu A dc, \ V_{CE} = 5.0 V dc \\ I_C &= 100 \mu A dc, \ V_{CE} = 5.0 V dc \\ I_C &= 500 \mu A dc, \ V_{CE} = 5.0 V dc \\ I_C &= 1.0 m A dc, \ V_{CE} = 5.0 V dc \\ I_C &= 10 m A dc, \ V_{CE} = 5.0 V dc \end{split}$	h _{FE}	45 200 225 250 250 225	500 675 800 800 800	
Collector-Emitter Saturation Voltage $I_C = 1.0 mAdc, I_B = 100 \mu Adc$	$V_{CE(sat)}$		0.3	Vdc
Base-Emitter Voltage $V_{CE} = 5.0 Vdc$, $I_C = 100 \mu Adc$	V _{BE(ON)}	0.5	0.7	Vdc

DYNAMIC CHARACTERISTICS

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
Forward Current Transfer Ratio $I_C = 50 \mu A dc, \ V_{CE} = 5.0 V dc, \ f = 5.0 MHz$ $I_C = 500 \mu A dc, \ V_{CE} = 5.0 V dc, \ f = 30 MHz$	h _{fe}	3.0 2.0	0.7	
Open Circuit Output Admittance $I_C = 1.0 \text{mAdc}, V_{CE} = 5.0 \text{Vdc}, f = 1.0 \text{kHz}$	h _{oe}		40	μmhos
Open Circuit Reverse-Voltage Transfer Ratio $I_C = 1.0 \text{mAdc}, V_{CE} = 5.0 \text{Vdc}, f = 1.0 \text{kHz}$	h _{re}		8.0 x 10 ⁻⁴	
Input Impedance $I_C = 1.0 \text{mAdc}, V_{CE} = 5.0 \text{Vdc}, f = 1.0 \text{kHz}$	h _{je}	3.5	24	kΩ
Small-Signal Short-Circuit Forward Current Transfer Ratio $I_C = 1.0 mAdc, \ V_{CE} = 5.0 Vdc, \ f = 1.0 kHz$	h_{fe}	250	900	
Output Capacitance $V_{CB} = 5.0 V dc, \ I_E = 0, \ 100 kHz \le f \le 1.0 MHz$	C_{obo}		5.0	pF
Input Capacitance $V_{EB} = 0.5 V dc, I_C = 0, 100 kHz \le f \le 1.0 MHz$	C_{ibo}		6.0	pF

⁽²⁾ Pulse Test: Pulse Width = $300\mu s$, Duty Cycle $\leq 2.0\%$.