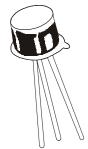




An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

NPN SILICON PLANAR TRANSISTOR

2N2484 TO-18



This transistors is primarily intended for use in high performance, low level, low noise amplifier applications

ABSOLUTE MAXIMUM RATINGS

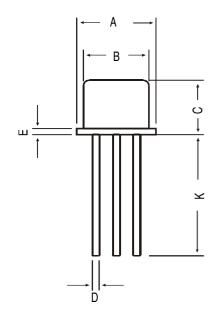
DESCRIPTION	SYMBOL		VALUE		UNIT
Collector -Emitter Voltage	VCEO		60		V
Collector -Base Voltage	VCBO		60		V
Emitter -Base Voltage	VEBO		6.0		V
Collector Current Continuous	IC		50		mA
Power Dissipation @Ta=25 degC	PD		360		mW
Derate Above 25 deg C			2.06		mw/deg C
Power Dissipation @Tc=25 degC	PD		1.20		W
Derate Above 25 deg C			6.85		mw/deg C
Operating And Storage Junction	Tj, Tstg		-65 to +200		deg C
Temperature Range					
THERMAL RESISTANCE					
Junction to Case	Rth(j-c)		146		deg C/W
Junction to Ambient in Free Air	Rth(j-a) *		485		deg C/W
Lead Temperature	TL		300		deg C
1/16" from Case for 10 Seconds					
ELECTRICAL CHARACTERISTICS (Ta	=25 deg C U				
DESCRIPTION	SYMBOL	TEST CONDITION	Min	MAX	UNIT
Collector -Emitter Voltage	VCEO**	IC=10mA,IB=0	60	-	V
Collector -Base Voltage	VCBO	IC=10uA.IE=0	60	-	V
Emitter -Base Voltage	VEBO	IE=10uA, IC=-0	6.0	-	V
Collector-Cut off Current	ICBO	VCB=45V, IE=0	-	10	nA
		Ta=150 deg C			
		VCB=45V, IE=0	-	10	uA
Emitter-Cut off Current	IEBO	VEB=5V, IC=0	-	10	nA
Collector Emitter Saturation Voltage	VCE(Sat)	IC=1mA,IB=0.1mA	-	0.35	V
Base Emitter on Voltage	VBE(on)	IC=0.1mA, VCE=5V	0.5	0.7	V

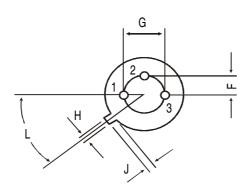
ELECTRICAL CHARACTERISTICS (Ta	2N2484				
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
DC Current Gain	hFE	IC=1uA, VCE=5V	30	-	
		IC=10uA, VCE=5V	100	500	
		Ta=55 deg C			
		IC=10uA, VCE=5V	20	-	
		IC=100uA, VCE=5V	175	-	
		IC=500uA, VCE=5V	200	-	
		IC=1mA, VCE=5V	250	-	
		IC=10mA,VCE=5V**	-	800	
Dynamic Characteristics					
Transition Frequency	ft	VCE=5V,IC=0.05mA	15	-	MHz
		f=5MHz			
		VCE=5V,IC=0.5mA,	60	-	MHz
		f=30MHz			
Out-put Capacitance	Cobo	VCB=5V, IE=0	-	6.0	pF
		f=140kHz			
In-put Capacitance	Cibo	VEB=0.5V, IC=0	-	6.0	pF
		f=140kHz			
Noise Figure	NF	VCE=5V, IC=10uA			
		Rs=10kohms			
		f=100Hz, BW'=20Hz	-	10	dB
		f=1kHz, BW=200Hz	-	3.0	dB
		f=10kHz, BW=2kHz	-	2.0	dB
		f=10Hz to 15.7kHz,BW=15.7KHz		3.0	dB
Small Signal Characteristics (@ f=1kH	z unless oth	erwise specified)			
Input Impedence	hie	IC=1mA, VCE=5V	3.5	24	kohms
					-4
Voltage Feedback Ratio	hre	IC=1mA, VCE=5V	-	800	x10
Small Signal Current Gain	hfe	IC=1mA, VCE=5V	150	900	
Output Admittance	hoe	IC=1mA, VCE=5V	-	40	umhos
output Admittanoc	1.00	10=11111, VOL=0V		70	uminos

Output Admittance hoe IC=1mA, VCE=5V
*Rth(j-a) is measured with the device soldered into a typical printed Circuit board.

^{**}Pulse Test: Pulse Width=300us, Duty Cycle=2%

TO-18 Metal Can Package





	DIM	MIN	MAX		
All diminsions in mm.	Α	5.24	5.84		
	В	4.52	4.97		
	С	4.31	5.33		
	D	0.40	0.53		
	E	_	0.76		
	F	_	1.27		
	G	1	2.97		
	Н	0.91	1.17		
nsic	J	0.71	1.21		
<u>im</u>	K	12.70	_		
Ħ	L	45 DEG			



PIN CONFIGURATION

- 1. EMITTER
- 2. BASE
- 3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-18	1K/polybag	350 gm/1K pcs	3" x 7.5" x 7.5"	5.0K	17" x 15" x 13.5"	80.0K	34 kgs

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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