

REVISIONS				DOC. NO. SPC-F004 * Effective: 7/8/02 * DCP No: 1398					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
1885	Α	RELEASED	EO	02/03/06	но	2/6/06	JWM	2/6/06	

**NPN** 

3. COLLECTOR

1. EMITTER

2. BASE

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3. COLLECTOR

2. BASE

Description: HIGH-SPEED SATURATED SWITCH. The 2N2369A is a silicon planar epitaxial NPN in Jedec TO-18, metal case. It is Designed specifically for high-speed saturated applications at current levels from 100uA to 100mA

RoHS

Compliant

## Features:

- Low Collector Saturation Voltage: 1V (Max)
- High Current Gain-Bandwidth Product:  $f_T = 300 MHz$  (Min) @  $I_C = 20 mA$

## Absolute Maximum Ratings:

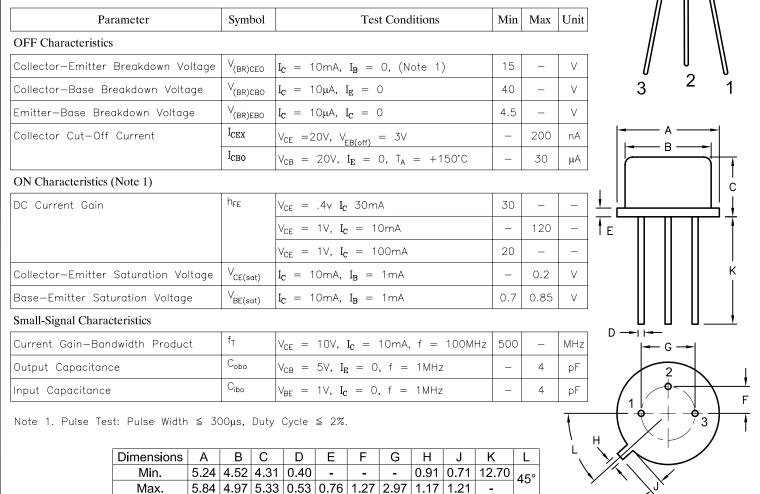
- Collector-Base Voltage,  $V_{CBO} = 40V$

- Collector-Emitter Voltage,  $V_{CEO} = 15V$  Emitter-Base Voltage,  $V_{EBO} = 4.5V$  Continuous Collector Current,  $I_C = 200$ mA Total Device Dissipation ( $T_A = +25^{\circ}\text{C}$ ),  $P_D = 360$ mW

Derate above 25°C = >2.28mW/°C

- Total Device Dissipation ( $T_C = +25^{\circ}C$ ),  $P_D = 1.2W$
- Derate above  $25^{\circ}\text{C} = 6.85 \text{mW/°C}$ Operating Junction Temperature Range,  $T_{\text{J}} = -65^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$ Storage Temperature Range,  $T_{\text{stg}} = -65^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$

## Electrical Characteristics: $(T_A = +25^{\circ}C \text{ unless otherwise specified})$



SPC-F004.DWG

TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:							
UNLESS OTHERWISE	EKLAS ODISH	02/03/06	High—Speed Saturated Switch Transistor, Bipolar, Metal, TO—18, NPN					NPN		
SPECIFIED,	CHECKED BY:	DATE:	SIZE	DWG. NO.		ELEC	TRONIC FILE	REV		
DIMENSIONS ARE   FOR REFERENCE	HISHAM ODISH	2/6/06	l a l	2N2369A		35	lΑ			
PURPOSES ONLY.	APPROVED BY:	DATE:	$\vdash$				I			
OK BOZO BIVETI	JEFF MCVICKER	2/6/06	SCALI	E: NTS	U.O.M.: Millimeters		SHEET: 1 OI	F 1		

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