

ZTX449STOA Datasheet



DiGi Electronics Part Number

ZTX449STOA-DG

Manufacturer

Diodes Incorporated

Manufacturer Product Number

ZTX449STOA

Description

TRANS NPN 30V 1A E-LINE

Detailed Description

Bipolar (BJT) Transistor NPN 30 V 1 A 150MHz 1 W T

hrough Hole E-Line (TO-92 compatible)

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:			
ZTX449STOA	Diodes Incorporated			
Series:	Product Status:			
-	Obsolete			
Transistor Type:	Current - Collector (Ic) (Max):			
NPN	1 A			
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ Ib, Ic:			
30 V	1V @ 200mA, 2A			
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:			
100nA (ICBO)	100 @ 500mA, 2V			
Power - Max:	Frequency - Transition:			
1 W	150MHz			
Operating Temperature:	Mounting Type:			
-55°C ~ 200°C (TJ)	Through Hole			
Package / Case:	Supplier Device Package:			
E-Line-3, Formed Leads	E-Line (TO-92 compatible)			
Base Product Number:				
7TX449				

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8541.29.0075	

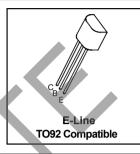
NPN SILICON PLANAR MEDIUM POWER TRANSISTOR

ZTX449

ISSUE3

FEATURES

- * 30 Volt V_{CEO}
- * 1 Amp continuous current
- * P_{tot}= 1 Watt



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V _{EBO}	5	V
Peak Pulse Current	I _{CM}	2	Α
Continuous Collector Current	I _C	1	А
Power Dissipation at T _{amb} = 25°C	P _{tot}	1	W
Operating and Storage Temperature Range	$T_j:T_{stg}$	-55 to +200	°C

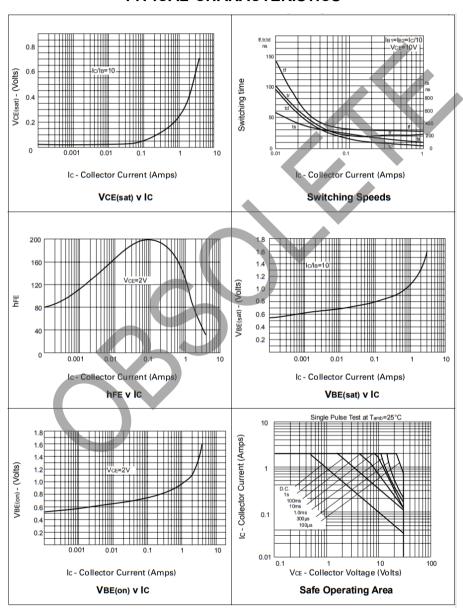
ELECTRICAL CHARACTERISTICS (at Tamb = 25°C unless otherwise stated).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	30			V	IC=10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =100μA, I _C =0
Collector Cut-Off Current	I _{CBO}			0.1 10	μ Α μ Α	V _{CB} =40V V _{CB} =40V, T _{amb} =100°C
Emitter Cut-Off Current	I _{EBO}			0.1	μА	V_{EB} =4 V , I_{C} =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5 1	V	I _C =1A, I _B =100mA* I _C =2A, I _B =200mA*
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.25	V	I _C =1A, I _B =100mA*
Base-Emitter Turn-on Voltage	V _{BE(on)}			1	V	IC=1A,V _{CE} =2V*
Static Forward Current Transfer Ratio	FE	0 100 80 40		300		$\begin{array}{l} I_{C} \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
Transition Frequency	f _T	150			MHz	I _C =50mA, V _{CE} =10V f=100MHz
Output Capacitance	C _{obo}			15	pF	V _{CB} =10V, f=1MHz

^{*}Measured under pulsed conditions. Pulse w dt =300µs. Duty cycle ≤ 2%

ZTX449

TYPICAL CHARACTERISTICS





OUR CERTIFICATE

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