ZTX457STZ Datasheet

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DiGi Electronics Part Number	ZTX457STZ-DG
Manufacturer	Diodes Incorporated
Manufacturer Product Number	ZTX457STZ
Description	TRANS NPN 300V 0.5A E-LINE
Detailed Description	Bipolar (BJT) Transistor NPN 300 V 500 mA 75MHz 1 W Through Hole E-Line (TO-92 compatible)

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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ZTX457STZ	Diodes Incorporated
Series:	Product Status:
-	Active
Transistor Type:	Current - Collector (Ic) (Max):
NPN	500 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ Ib, Ic:
300 V	300mV @ 10mA, 100mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
100nA (ICBO)	50 @ 50mA, 10V
Power - Max:	Frequency - Transition:
1 W	75MHz
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:	
ZTX457	

Environmental & Export classification

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

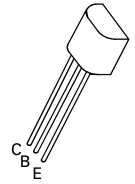
NPN SILICON PLANAR MEDIUM POWER HIGH VOLTAGE TRANSISTOR

ISSUE 2 – MARCH 1994

ZTX457

FEATURES

- 300 Volt V_{CEO}
- 0.5 Amp continuous current
- P_{tot}= 1 Watt



E-Line
TO92 Compatible

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	5	V
Peak Pulse Current	I_{CM}	1	A
Continuous Collector Current	I_C	500	mA
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 T_{amb} = 25°C unless otherwise stated).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	300			V	I_C=100µA, I_E=0
Collector-Emitter Breakdown Voltage	$V_{CEO(sus)}$	300			V	I_C=10mA, I_B=0*
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I_E=100µA
Collector Cut-Off Current	I_{CBO}			100	nA	V_{CB}=200V
				10	µA	V_{CB}=200V, T_{amb}=100°C
Emitter Cut-Off Current	I_{EBO}			100	nA	V_{EB}=4V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			0.3	V	I_C=100mA, I_B=10mA*
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			1	V	I_C=100mA, I_B=10mA*
Base-Emitter Turn On Voltage	$V_{BE(on)}$			1	V	IC=100mA, V_{CE}=10V*
Static Forward Current Transfer Ratio	h_{FE}	50				I_C=10mA, V_{CE}=10V*
		50		300		I_C=50mA, V_{CE}=10V*
		25				I_C=100mA, V_{CE}=10V*
Transition Frequency	f_T	75			MHz	I_C=50mA, V_{CE}=10V f=20MHz

*Measured under pulsed conditions. Pulse width=300µs. Duty cycle ≤ 2%

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

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QUALITY MANAGEMENT SYSTEM CERTIFICATE

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GB/T 24001-2016 idt ISO14001:2015

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OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM CERTIFICATE

DIGI ELECTRONICS HK LIMITED

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DCI Certification Ltd

CR

CERTIFICATE OF INCORPORATION

I hereby certify that

is this day incorporated in Hong Kong under the Companies Ordinance (Chapter 622 of the Laws of Hong Kong), and that this company is a limited company.

Registrar of Companies

Hong Kong Special Administrative Region

ASA

MEMBERSHIP

Certificate

The Aviation Suppliers Association has enrolled as a Regular Member

DIGI ELECTRONICS HK LIMITED

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