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PIN 1

PIN 3 -

PIN

2 3

A Product Line of **Diodes Incorporated**

LITE-ON SEMICONDUCTOR STPF1040CTW

ITO-220AB(W/B)

MIN

14.95

10.00

2.76

8.50

3.30

13.0

1.15

2.40

0.50

0.45

3.00

4.46

2.48

2.50

1.50

All dimension in millimeter

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MAX

15.95

10.40

3.36

8.80

3.90

13.70

1.70

2.70

0.80

0.70

3.30

4.87

2.80

2.80

1.90

UNIT

°C/W

SUPER FAST **GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - 400 Volts FORWARD CURRENT – 10 Amperes

ITO-220AB(W/B)

• PIN 2

5

FEATURES

- · Glass passivated chip
- Super fast switching time for high efficiency
- · Low forward drop voltage and high current capability
- Low reverse leakage current
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package: ITO-220AB molded plastic
- · Package Material: "Green" Molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Maximum mounting torque = 0.5 N.m(5.1 Kgf.cm)
- · Lead free finish, RoHS compliant
- · Polarity : As marked on body
- Marking position: Any
- Weight: 0.05ounces, 1.558 grams (Approximate)
- Marking code:STPF1040CTW

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	400	V
Maximum DC blocking voltage		V _{DC}	400	V
Maximum Average rectified forward current	@Tc = 90°C	I _{AV}	10	А
Peak forward surge 8.3ms single half sine-wave s rated load	superimposed on	I _{FSM}	80	А
Operating and Storage temperature range		T_{J}, T_{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER TEST CONDITION		SYMBOL	ТҮР	MAX	UNIT	
	I _F = 5A	$T_J = 25^{\circ}C$			1.30	
Forward voltage (Note 4)	1F - 3A	T _J = 125°C	V		1.20	V
	1 104	T _J = 25°C	V _F		1.50	v
	$I_F = 10A$	T _J = 125°C			1.40	
Roverse leekage ourrent	V _R = 400V	T _J = 25°C	1		10	
Reverse leakage current		$T_{J} = 100^{\circ}C$	IR		250	uA
Typical junction capacitance	Note 5)		CJ	30	50	pF
THERMAL CHARACTI	RISTICS					

PARAMETER SYMBOL TYP Typical thermal resistance (Note 6,7) RthJ_C

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	МАХ	UNIT						
Reverse recovery time	$I_F = 0.5A, I_{rr} = 0.25A, I_R = 0.1A$	T _{RR}	35	nS						

Notes:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

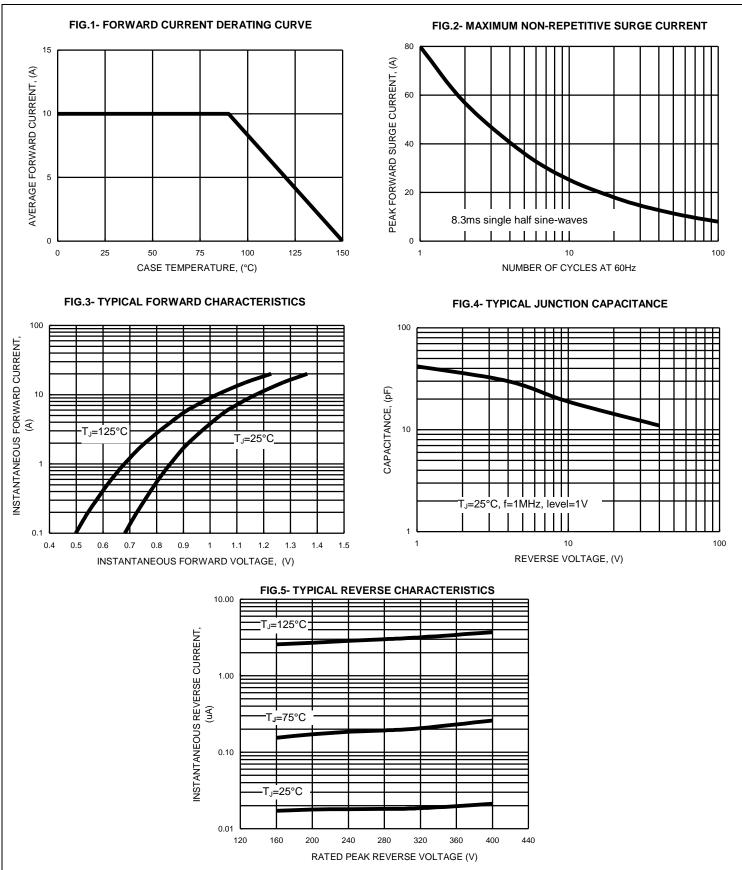
4. 300us pulse width, 2% duty cycle.

5. Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

6. Thermal Resistance test performed in accordance with JESD-51.

7. The unit mounted on 100.64mm x 75.2mm x 26.83 mm Aluminum Plate Heatsink.







LITE-ON SEMICONDUCTOR

Ordering Information:

Park Number Package Qty. Carrier STPF1040CTW ITO-220AB(W/B) 50 pcs Tube Aarking Information: Action of the state of	в	art Number	Package	Pac	king
Marking Information: Date Code Y = Year Code X = 1.2.T.R.3Manufacturer's Internal Code with Normal Comp X = A.B.V.K.CManufacturer's Internal Code with Green Comp WW = Week Code FTPF1040CTW Product Type Marking Code			Fackage	Qty.	Carrier
LOGO LT YXWW STPF1040CTW Date Code Y = Year Code Y = Year Code X = 1.2.T.R.3Manufacturer's Internal Code with Normal Comp WW = Week Code WW = Week Code Product Type Marking Code	ST	PF1040CTW	ITO-220AB(W/B)	50 pcs	Tube
	LOGO	O O LT YXVWV ← STPF1040CTW ←	Y = Year Code X = 1.2.T.R.3Manufac X = A.B.V.K.CManufac WW = Week Code	acturer's Internal C	de with Normal Comp code with Green Comp



LITE-ON SEMICONDUCTOR

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