

A Product Line of Diodes Incorporated

STPF1620CT

SUPER FAST GLASS PASSIVATED RECTIFIER

REVERSE VOLTAGE – 200 Volts FORWARD CURRENT – 16 Amperes

ITO-220AB

FEATURES

- · Glass passivated chip
- Superfast switching time for high efficiency
- · Low forward voltage drop and high current capability
- · Low reverse leakage current
- · High surge capacity
- Plastic package has UL flammability classification
- 94V-0
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)

MECHANICAL DATA

Package: ITO-220AB molded plastic
Polarity: As marked on the body
Weight: 0.06 ounces, 1.70 grams

· Mounting position: Any

• Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)

P_{IN} 1 2 3

ITO-220AB				
DIM.	MIN.	MAX.		
Α	15.50	16.50		
В	10.0	10.40		
С	3.00	3.50		
D	9.00	9.30		
Е	2.90	3.60		
F	13.46	14.22		
G	1.15	1.70		
Н	2.40	2.70		
I	0.75	1.00		
J	0.45	0.70		
K	3.00 Ø	3.30 ∅		
L	4.36	4.77		
M	2.48	2.80		
N	2.50	2.80		
All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

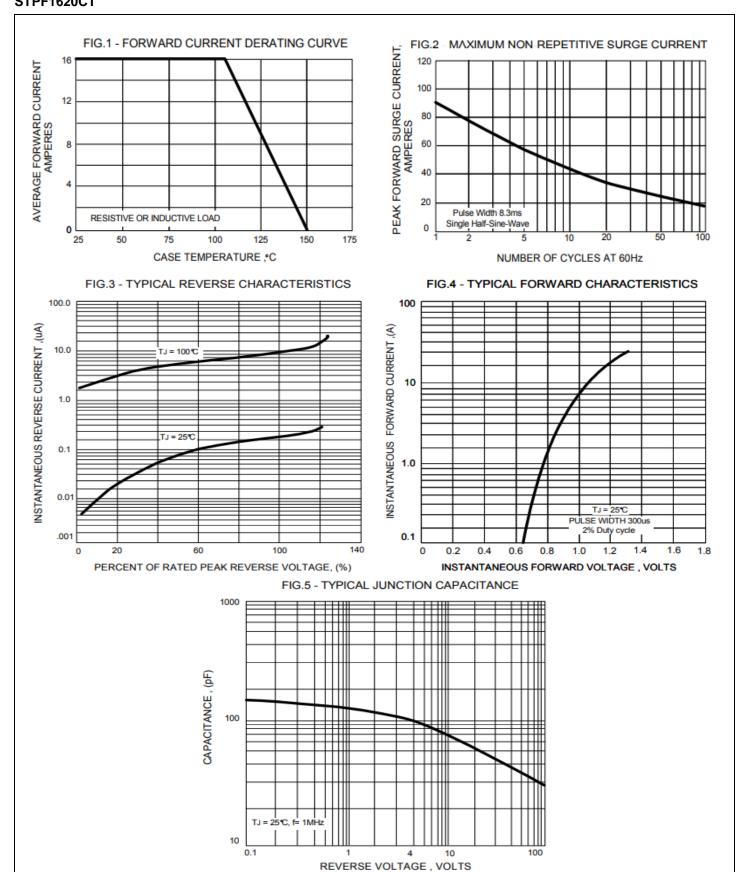
CHARACTERISTICS		SYMBOL	STPF1620CT	UNIT
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200	V
Maximum RMS Voltage		V _{RMS}	140	V
Maximum DC Blocking Voltage		V _{DC}	200	V
Maximum Average Forward Rectified Current @Tc=105°C		I _(AV)	16	Α
Peak Forward Surge Current 8.3ms single half sine-wave @T」=25°C		I _{FSM}	90	Α
Maximum forward Voltage Pulse Width =300us Duty cycle	IF=8A @TJ =25°C IF=8A @TJ =125°C IF=16A @TJ =25°C IF=16A @TJ =125°C	V _F	1.1 1.0 1.25 1.20	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TJ =25°C @TJ =100°C	I _R	10 500	uA
Typical Junction Capacitance per element (Note 3)		Сл	100	pF
Maximum Reverse Recovery Time (Note 4)		T _{RR}	30	ns
Typical Thermal Resistance (Note 5)		R _⊝ JC	3.0	°C/W
Operating and Storage Temperature Range		T _J ,T _{STG}	-55 to +150	°C
Dielectric Strength from terminals to case, AC with t=1 minute, RH<30%		V _{dis}	2000	V

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. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 4. Reverse Recovery Test Conditions: IF=0.5A,IR=1.0A,IRR 0.25A.
- 5. Device mounted on 226mm x 114mm x 8mm Al Plate.



RATING AND CHARACTERISTIC CURVES STPF1620CT

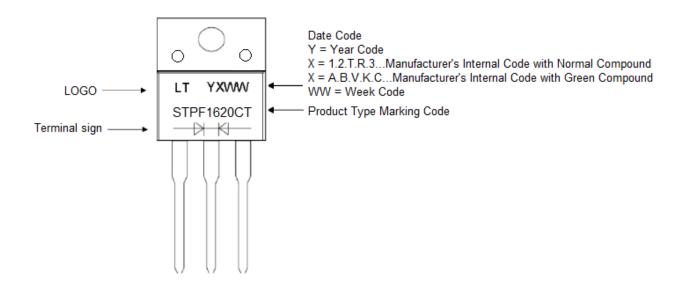




Ordering Information:

Part Number	Dookowa	Packing	
	Package	Qty.	Carrier
STPF1620CT	ITO-220AB	50	Tube

Marking Information:





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