

STRN30100LFCT

Surface Mount Low V<sub>F</sub> Schottky Barrier Rectifier

Voltage	100 V	Current	30 A
---------	-------	---------	------

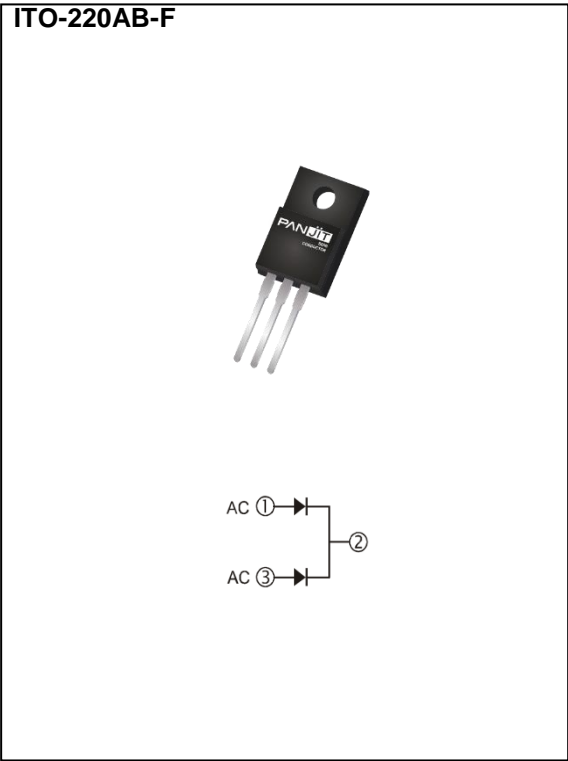
Features

- Low forward voltage drop
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : ITO-220AB-F Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 2 grams

ITO-220AB-F



Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	100	V
Maximum RMS Voltage		V <sub>RMS</sub>	70	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	100	V
Maximum Average Forward Current	per device	I <sub>F(AV)</sub>	30	A
	per diode		15	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load		I <sub>FSM</sub>	200	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V <sub>R</sub> = 4 V		C <sub>J</sub>	2030	pF
Typical Thermal Resistance <sup>(Note 1)</sup>		R <sub>θJA</sub>	60	°C/W
		R <sub>θJC</sub>	1.9	
		R <sub>θJL</sub>	2.3	
Operating Junction Temperature Range		T <sub>J</sub>	-55~150	°C
Storage Temperature Range		T <sub>STG</sub>	-55~150	°C

NOTES : 1. Device mounted on a infinite heatsink.

STRN30100LFCT

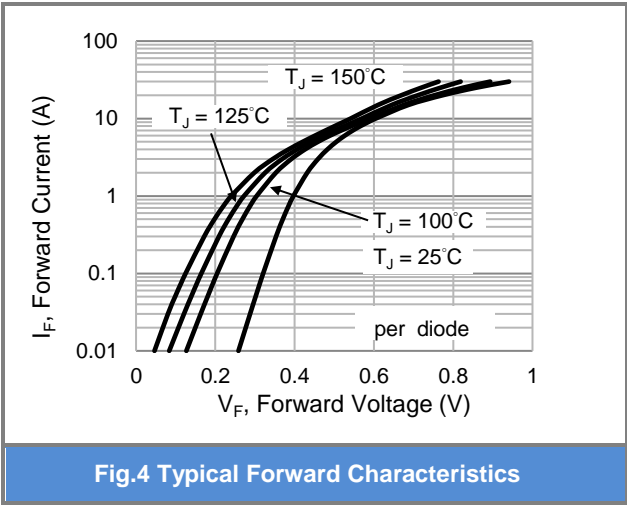
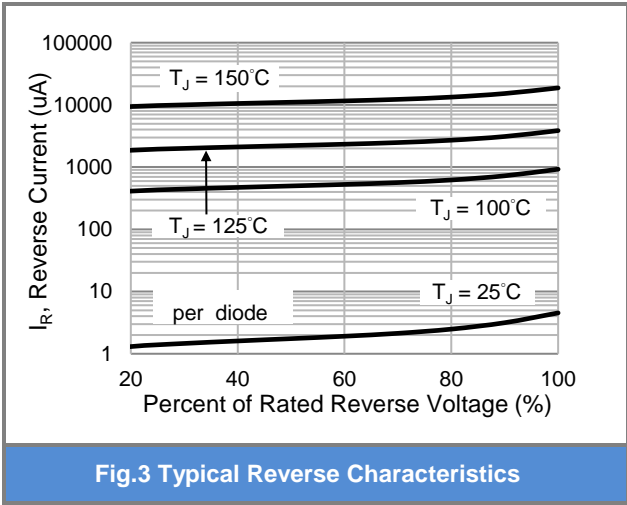
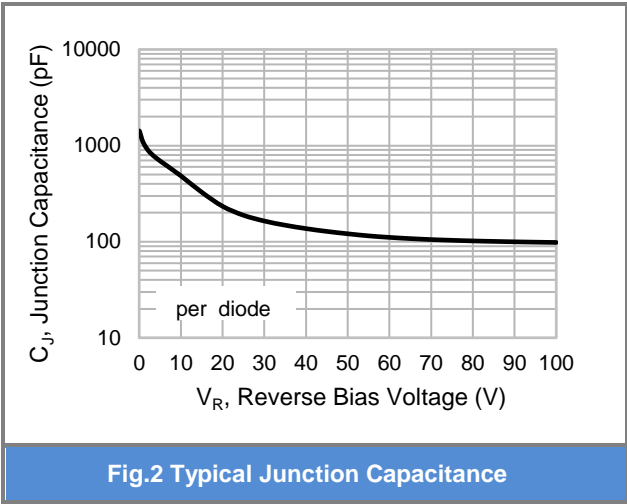
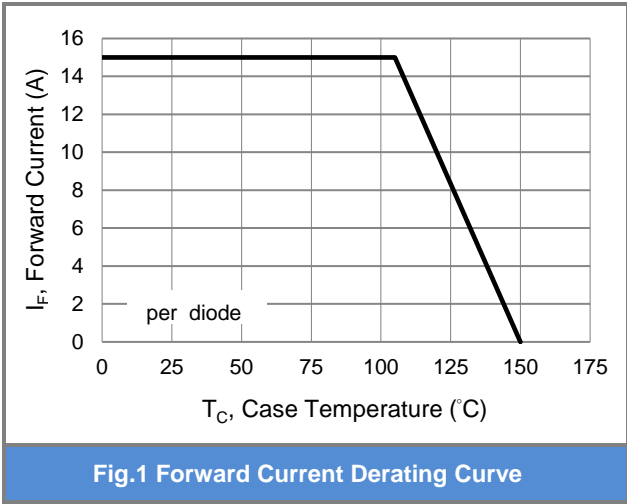
Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	0.4	0.45	V
		I <sub>F</sub> = 5 A, T <sub>J</sub> = 25 °C	-	0.5	0.55	
		I <sub>F</sub> = 15 A, T <sub>J</sub> = 25 °C	-	0.7	0.75	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.27	0.32	
		I <sub>F</sub> = 5 A, T <sub>J</sub> = 125 °C	-	0.44	0.49	
		I <sub>F</sub> = 15 A, T <sub>J</sub> = 125 °C	-	0.64	0.69	
Reverse Current <sup>(Note 2)</sup>	I <sub>R</sub>	V <sub>R</sub> = 80 V, T <sub>J</sub> = 25 °C	-	3	18	uA
		V <sub>R</sub> = 100 V, T <sub>J</sub> = 25 °C	-	5.6	80	
		V <sub>R</sub> = 100V,T <sub>J</sub> = 125 °C	-	3.8	22.8	mA

NOTES : 2. Short duration pulse test used to minimize self-heating effect.

STRN30100LFCT

TYPICAL CHARACTERISTIC CURVES

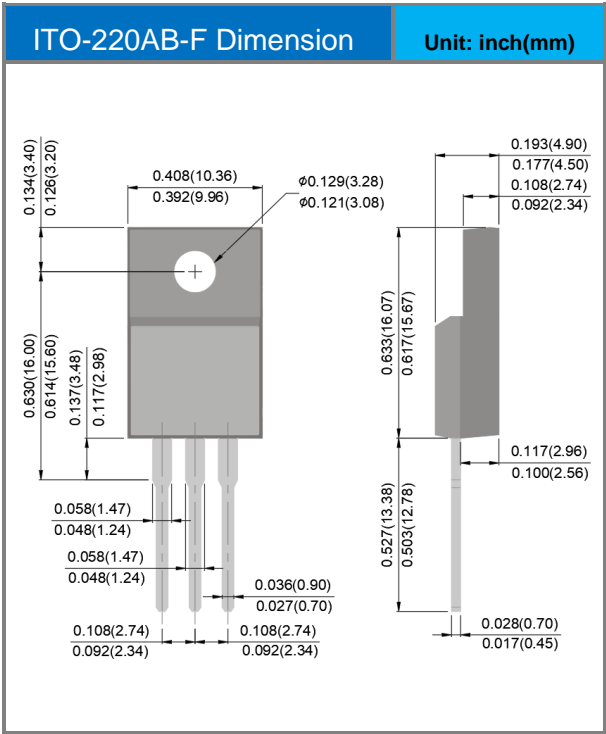


STRN30100LFCT

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
STRN30100LFCT	ITO-220AB-F	50pcs / Tube	TN30100LFCT

Packaging Information



## STRN30100LFCT

### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.