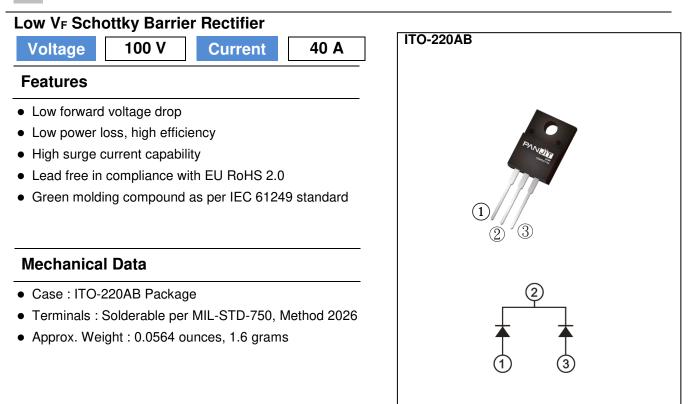


# STR40100LFCT



#### Maximum Ratings and Thermal Characteristics ( $T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS		
Maximum Repetitive Peak Reverse Voltage		VRRM	100	V	
Maximum RMS Voltage		VRMS	70	V	
Maximum DC Blocking Voltage		V <sub>DC</sub>	100	V	
Maximum Average Forward Current	per device		40		
	per diode	lf(AV)	20	A	
Peak Forward Surge Current : 8.3 ms Single Half Sine-			010		
Wave Superimposed On Rated Load Per Diode		IFSM	210	A	
Typical Junction Capacitance			1 400		
Measured at 1 MHZ And Applied $V_{B} = 4 V$		CJ	1400	pF	
Typical Thermal Resistance <sup>(Note 1)</sup>		Rejc	4	2 <b>0</b> MU	
		R <sub>θJL</sub>	4	°C/W	
Operating Junction Temperature Range		TJ	-55~150	٥C	
Storage Temperature Range		T <sub>STG</sub>	-55~150	٥C	



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

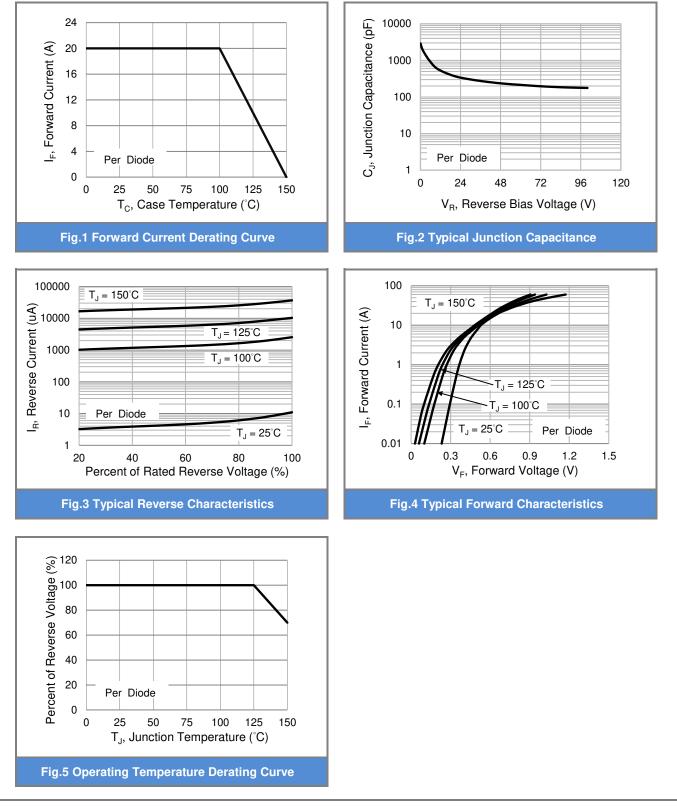
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage Per Diode	VF	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	0.37	-	V
		IF = 10 A, TJ = 25 °C	-	0.53	-	
		IF = 20 A, TJ = 25 °C	-	-	0.72	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.24	-	
		I <sub>F</sub> = 10 A, T <sub>J</sub> = 125 °C	-	0.5	-	
		I <sub>F</sub> = 20 A, T <sub>J</sub> = 125 °C	-	0.64	-	
Reverse Current Per Diode <sup>(Note 2)</sup>	IR	V <sub>R</sub> = 80 V, T <sub>J</sub> = 25 °C	-	7	-	uA
		V <sub>R</sub> = 100 V, T <sub>J</sub> = 25 °C	-	-	100	
		V <sub>R</sub> = 100V,T <sub>J</sub> = 125 °C	-	11	-	mA

NOTES :

- 1. Device mounted on a infinite heatsink.
- 2. Short duration pulse test used to minimize self-heating effect.







# STR40100LFCT

**TYPICAL CHARACTERISTIC CURVES** 

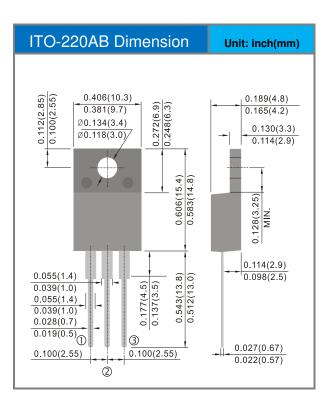
## 

CONDUCTOR



Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR40100LFCT_T0_00001	ITO-220AB	50pcs / Tube	STR40100LFCT	Halogen free RoHS compliant

#### **Packaging Information**





# STR40100LFCT

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