

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

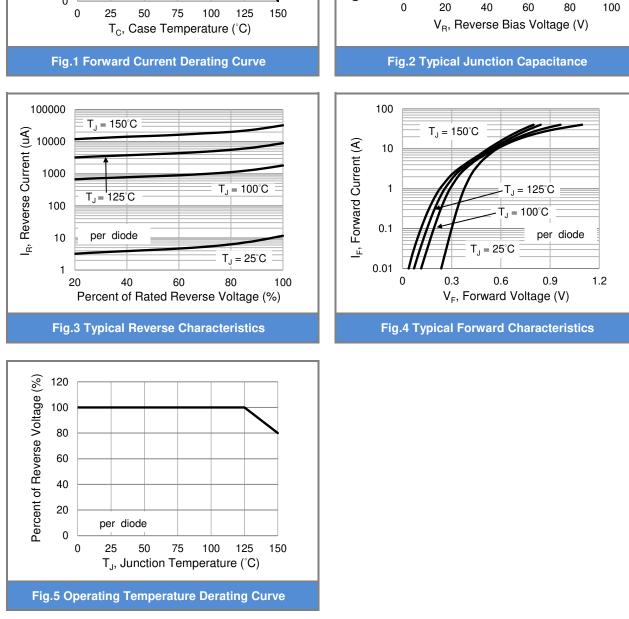
PARAMETER	SYMBOL	LIMIT	UNITS		
Maximum Repetitive Peak Reverse Voltage		VRRM	100	V	
Maximum RMS Voltage		V <sub>RMS</sub>	70	V	
Maximum DC Blocking Voltage		VDC	100	V	
Maximum Average Forward Current	per device		40	•	
	per diode	IF(AV)	20	A	
Peak Forward Surge Current : 8.3 ms Single Half Sine-			000	•	
Wave Superimposed On Rated Load Per Diode		I <sub>FSM</sub>	200	A	
Typical Junction Capacitance			000		
Measured at 1 MHZ And Applied $V_{B} = 4 V$		CJ	820	pF	
Typical Thermal Resistance	(Note 1)	Rejc	4	0000	
	(Note 1)	Rejl	4	°C/W	
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range		T <sub>STG</sub>	-55~150	٥C	



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	-	0.38	-	V
		I <sub>F</sub> = 10 A, T <sub>J</sub> = 25 °C	-	0.58	-	
		IF = 20 A, TJ = 25 °C	-	-	0.81	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.26	-	
		I <sub>F</sub> = 10 A, T <sub>J</sub> = 125 °C	-	0.55	-	
		I <sub>F</sub> = 20 A, T <sub>J</sub> = 125 °C	-	0.68	-	
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	-	9	-	mA

NOTES :

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



10000

1000

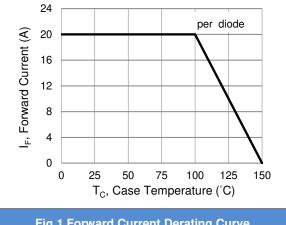
100

10

1

per\_diode

C<sub>J</sub>, Junction Capacitance (pF)



### TYPICAL CHARACTERISTIC CURVES

**STR40100FCT** 



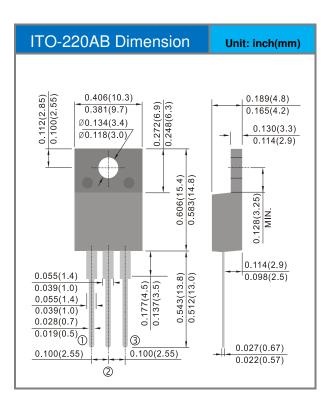




#### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR40100FCT_T0_00001	ITO-220AB	50pcs / Tube	STR40100FCT	Halogen free RoHS compliant

#### **Packaging Information**





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