

STR40100FCT Low VF Schottky Barrier Rectifier ITO-220AB 100 V Current Voltage 40 A **Features** • 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 Package • Terminals : Solderable per MIL-STD-750, Method 2026 • Approx. Weight : 0.0564 ounces, 1.6 grams

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

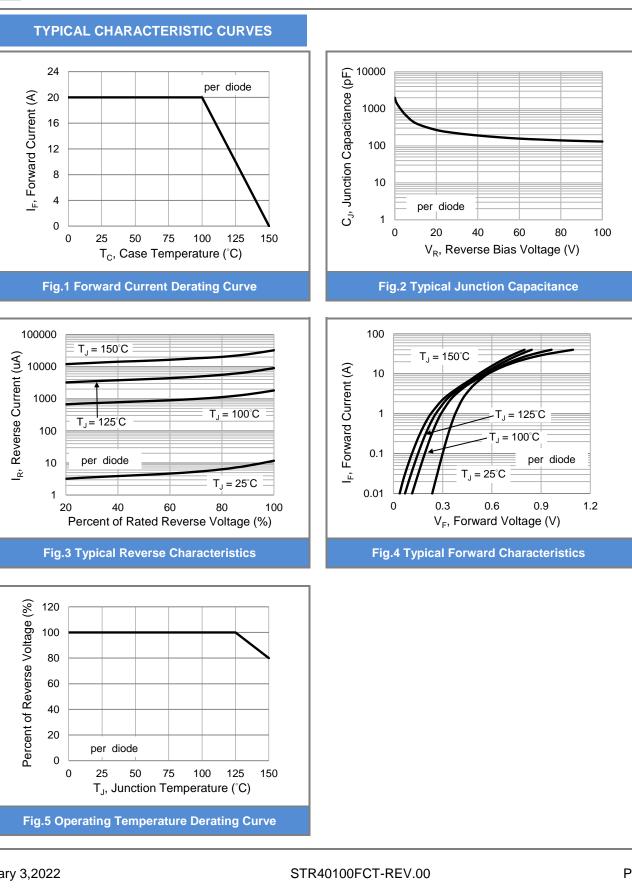
PARAMETER	SYMBOL	LIMIT	UNITS		
Maximum Repetitive Peak Reverse Voltage		Vrrm	100	V	
Maximum RMS Voltage		V _{RMS}	70	V	
Maximum DC Blocking Voltage		VDC	100	V	
Maximum Average Forward Current	per device		40		
	per diode	IF(AV)	20	A	
Peak Forward Surge Current : 8.3 ms Single Half Sine-		IFSM	200	А	
Wave Superimposed On Rated Load Per Diode		1 3	200		
Typical Junction Capacitance		CJ	820	nE	
Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	820	pF	
Typical Thermal Resistance	(Note 1)	Rejc	4	°C/W	
	(Note 1)	R _{0JL}	4		
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range		T _{STG}	-55~150	°C	



PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage Per Diode	VF	I _F = 1 A, T _J = 25 °C	-	0.38	-	V
		I _F = 10 A, T _J = 25 °C	-	0.58	-	
		IF = 20 A, TJ = 25 °C	-	-	0.81	
		I _F = 1 A, T _J = 125 °C	-	0.26	-	
		I _F = 10 A, T _J = 125 °C	-	0.55	-	
		I _F = 20 A, T _J = 125 °C	-	0.68	-	
Reverse Current Per Diode ^(Note 2)	IR	V _R = 80 V, T _J = 25 °C	-	7	-	uA
		V _R = 100 V, T _J = 25 °C	-	-	100	
		V _R = 100V,T _J = 125 °C	-	9	-	mA

NOTES :

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



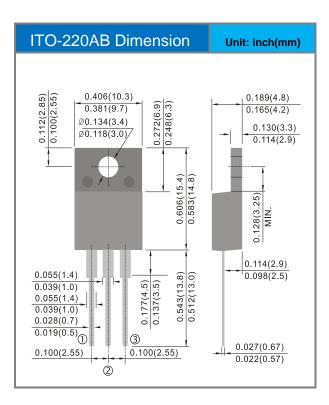




Part No. Packing Code Version

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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