

#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 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	
	per device		40	А	
Maximum Average Forward Current	per diode	IF(AV)	20		
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave			300	A	
Superimposed On Rated Load		IFSM			
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$			3480	pF	
		CJ			
Typical Thermal Resistance <sup>(Note 1)</sup>		Reja	52	°C/W	
		Rejc	0.9		
		Rejl	1.4		
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range		Тѕтд	-55~150	°C	

NOTES : 1. Device mounted on a infinite heatsink.

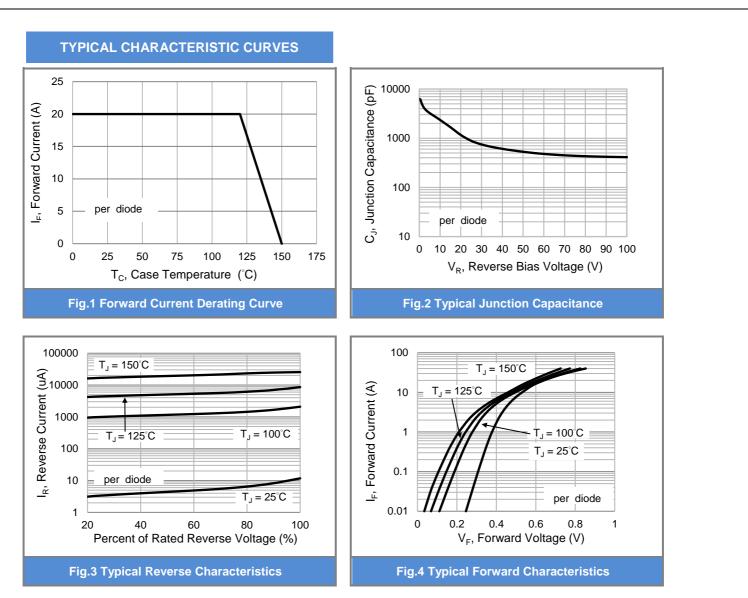


**Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage		I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	0.38	0.43	- V
		I⊧ = 10 A, TJ = 25 °C	-	0.53	0.58	
		I <sub>F</sub> = 20 A, T <sub>J</sub> = 25 °C	-	0.67	0.72	
	VF	I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.24	0.29	
		I <sub>F</sub> = 10 A, T <sub>J</sub> = 125 °C	-	0.48	0.53	
		I <sub>F</sub> = 20 A, T <sub>J</sub> = 125 °C	-	0.6	0.65	
Reverse Current <sup>(Note 2)</sup>		V <sub>R</sub> = 80 V, T <sub>J</sub> = 25 °C	-	6.5	39	uA
	IR	V <sub>R</sub> = 100 V, T <sub>J</sub> = 25 °C	-	12	160	
		V <sub>R</sub> = 100V,T <sub>J</sub> = 125 °C	-	8.6	51.6	mA

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



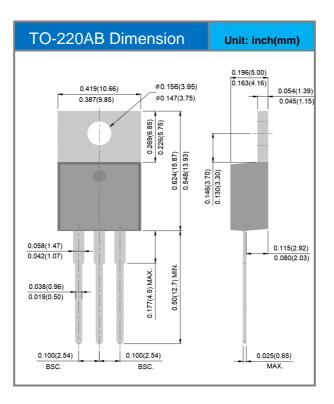




#### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
STRN40100VCT	TO-220AB	50pcs / Tube	TN40100VCT

#### **Packaging Information**





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