

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

PARAMETER	SYMBOL	LIMIT	UNITS		
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	100	V	
Maximum RMS Voltage		V _{RMS}	70	V	
Maximum DC Blocking Voltage		V _{DC}	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	А	
Wave Superimposed On Rated Load Per Diode		I _{FSM}	200		
Typical Junction Capacitance			000	- 5	
Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	820	pF	
Typical Thermal Resistance	(Note 1)	Rejc	2	°C/W	
	(Note 1)	Rejl	2		
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range		Tstg	-55~150	°C	



Electrical Characteristics (T_A = 25 °C unless otherwise noted)

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	-	
		I _F = 20 A, T _J = 25 °C	-	-	0.81	
		I _F = 1 A, T _J = 125 ℃	-	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.



24 per diode I_F, Forward Current (A) 20 16 12 8 4 0 0 25 50 75 100 125 150 T_C, Case Temperature (°C)

TYPICAL CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

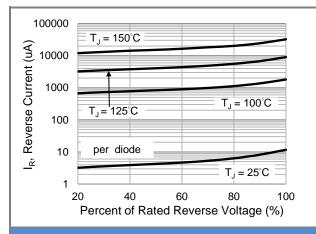
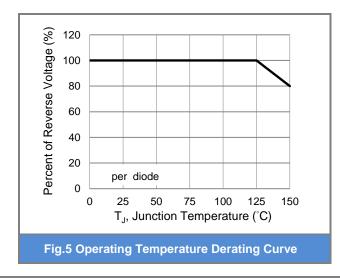


Fig.3 Typical Reverse Characteristics



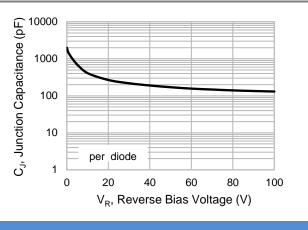


Fig.2 Typical Junction Capacitance

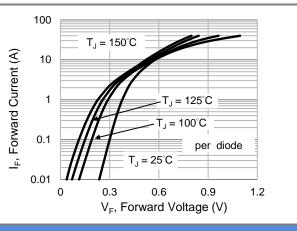


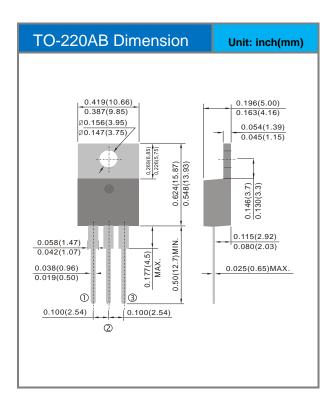
Fig.4 Typical Forward Characteristics



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR40100CT_T0_00001	TO-220AB	50pcs / Tube	STR40100CT	Halogen free RoHS compliant

Packaging Information





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