

SR2020CT THRU SR20200CT

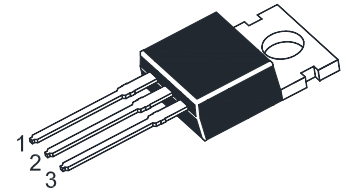
Schottky Barrier Rectifiers

Reverse Voltage - 20 to 200 V

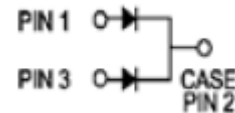
Forward Current - 20 A

Features

- Plastic package has UL Flammability Classification 94V-0
- Metal of silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- Guard ring for transient protection



TO-220FB Plastic Package



Mechanical Data

- **Case:** Molded plastic, TO-220FB
- **Terminals:** leads solderable per MIL-STD-202, Method 208 guaranteed
- **Polarity:** As marked
- **Mounting position:** Any

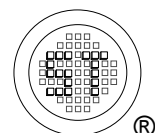
Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load, for capacitive load, derate by 20%.

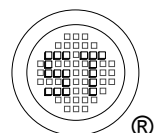
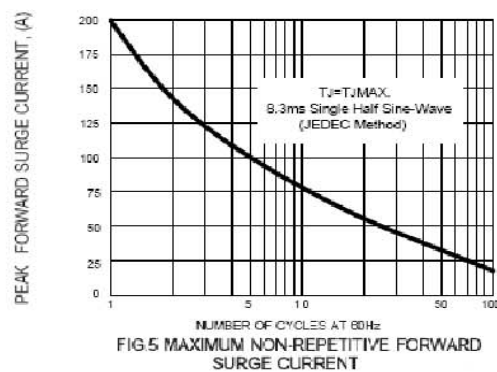
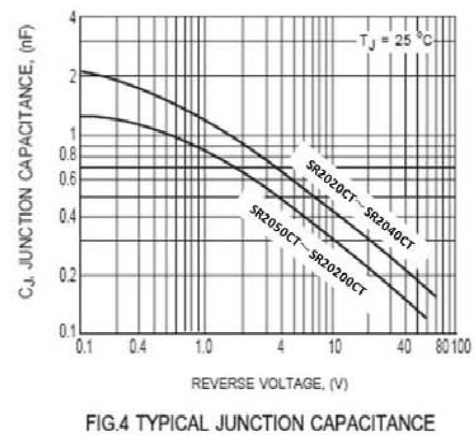
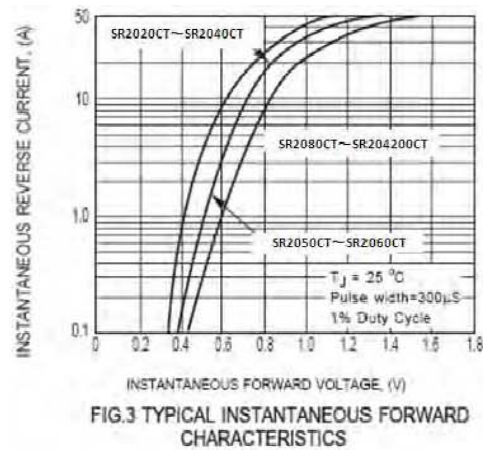
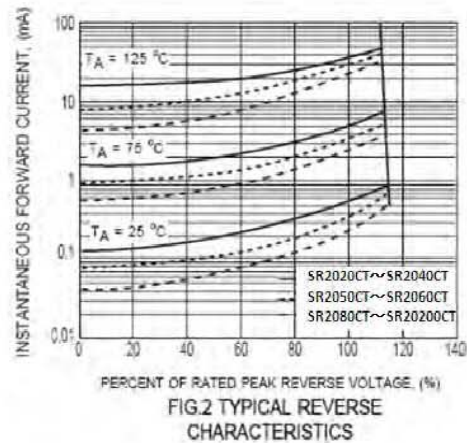
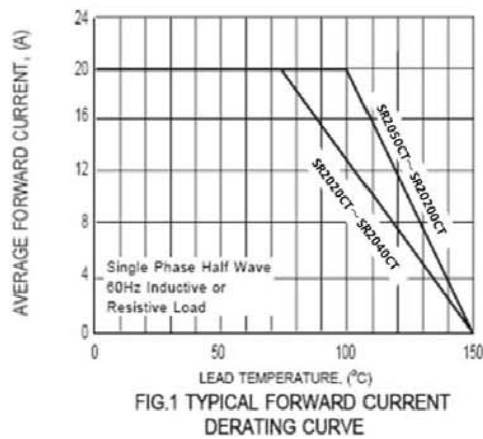
Parameter	Symbols	SR2020CT	SR2030CT	SR2040CT	SR2050CT	SR2060CT	SR2080CT	SR20100CT	SR20150CT	SR20200CT	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	80	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I _(AV)	20									A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	200									A
Maximum Forward Voltage at 10 A	V _F	0.55			0.7		0.85		0.95		V
Maximum Reverse Current T _C = 25 °C at Rated DC Blocking Voltage T _C = 100 °C	I _R	1							0.2		mA
		50									
Typical Junction Capacitance ¹⁾	C _j	700			500						pF
Typical Thermal Resistance ²⁾	R _{θJC}	2									°C/W
Operating Temperature Range	T _j	- 55 to + 125			- 55 to + 150						°C
Storage Temperature Range	T _{stg}	- 55 to + 150									°C

¹⁾ Measured at 1MHz and applied reverse voltage of 4 Volts DC.

²⁾ Thermal Resistance from Junction to case per leg.



SR2020CT THRU SR20200CT



SR2020CT THRU SR20200CT

TO-220FB Package Outline

