



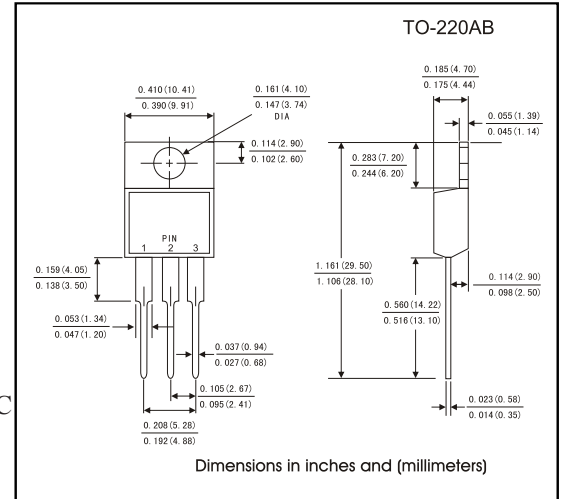
SCHOTTKY BARRIER RECTIFIER

SR2020CT - SR20200CT

VOLTAGE RANGE - 20 to 200 V
CURRENT - 20 A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Dual rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- High temperature soldering guaranteed:260 °C/10 seconds, 0.25" (6.35 mm) from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



MECHANICAL DATA

- Case: JEDEC TO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbols	SR 2020CT	SR 2030CT	SR 2040CT	SR 2045CT	SR 2060CT	SR 2080CT	SR 20100CT	SR 20150CT	SR 20200CT	Units
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	45	60	80	100	150	200	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	32	42	56	70	105	140	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	45	60	80	100	150	200	Volts
Maximum average forward rectified current (see Fig.1)	$I_{(AV)}$	Per leg									Amps
		Total device									
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load JEDEC method	I_{FSM}	10.0									Amps
Maximum Instantaneous Forward Voltage at 20.0 A	V_F	0.60			0.75	0.85	0.90	0.95			Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	I_R	0.2									mA
		30			50						
Typical thermal resistance (Note 3)	$R_{\theta JC}$	3.0									°C/W
Operating junction and storage temperature range	T_J / T_{STG}	-65 to +150									°C

Notes:

1. Pulse test: 300 μ s pulse width 1% duty cycle
2. Thermal resistance from junction to case



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RATINGS AND CHARACTERISTIC CURVES SR2020CT - SR20200CT

