

SAMYANG ELECTRONICS SR4030CT--- SR40200CT

SCHOTTKY BARRIER RECTIFIER

FEATURES

- \bigotimes Metal-semiconductor junction with guard ring
- \bigcirc Epitaxial construction
- $\bigotimes \mathsf{Low}$ forward voltage drop, low switching losses
- \bigcirc High surge capability
- ◇ For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- \bigcirc The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- - MIL-STD-750,Method 2026
- ◇Polarity: As marked
- ♦ Weight: 0.08ounces, 2.24 grams
- ♦ Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

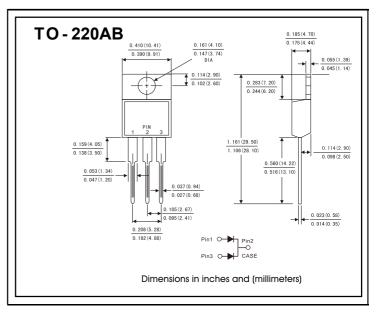
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

	Symbols	SR 4030CT	SR 4035CT	SR 4040CT	SR 4045CT	SR 4050CT	SR 4060CT	SR 40100CT	SR 40150CT	SR 40200CT	Units
Maximum repetitive peak reverse voltag	e Vrrm	30	35	40	45	50	60	100	150	200	Volts
Maximum RMS voltage	Vrms	21	25	28	32	35	42	70	105	140	Volts
Maximum DC blocking voltage	VDC	30	35	40	45	50	60	100	150	200	Volts
Maximum average forward Pe rectified current(see Fig.1) Total d	leg vice (AV)		20.0 40.0								Amps
Peak forward surge current 8.3ms single sine-wave superimposed on rated load (JEDEC method)	half IFSM		300.0								Amps
Maximum instantaneous forward voltag at 40.0 A	VF		0.60				75	0.85	0.	95	Volts
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	5°C IR 25°C IR		0.2 30 50						mA		
Typical thermal resistance (Note 2)	R _θ JC		3.0					°C/W			
Operating junction temperature range	TJ		-65 to+150								
Storage temperature range	Tsig		-65 to+150								

NOTE: 1. Pulse test:300us pulse width,1% duty cycle.

- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to ambient

VOLTAGE RANGE: 30 --- 200 V CURRENT:40.0A



RATINGS AND CHARACTERISTIC CURVES

