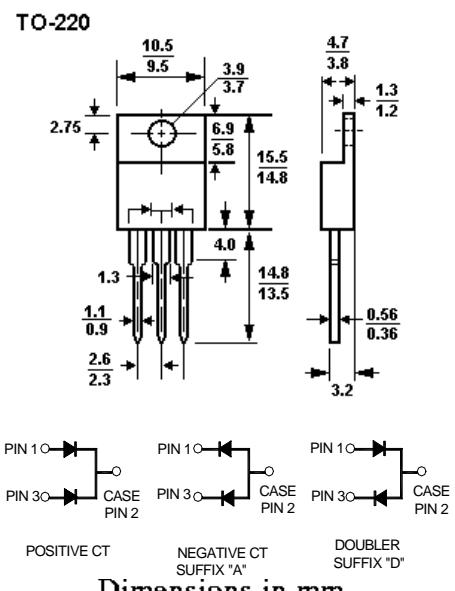


# SR2020CT THRU SR2060CT

**SCHOTTKY BARRIER RECTIFIERS**  
 Reverse Voltage – 20 to 60 Volts  
 Forward Current – 20 Amperes

## Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- High capability
- Low power loss, high efficiency
- High current capability, low forward voltage
- High surge capacity
- For use in low voltage, high frequency inverters, free wheeling and polarity protection applications



Dimensions in mm

## Mechanical Data

- Case: Molded plastic body, TO-220
- Epoxy: UL 94V-O rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, method 208
- Polarity: As marked
- Mounting Position: Any

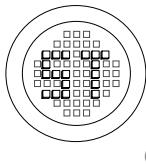
## Absolute Maximum Ratings and Characteristics

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

	Symbols	SR2020CT	SR2030CT	SR2040CT	SR2050CT	SR2060CT	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	40	50	60	V
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	V
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$			20			A
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$			250			A
Maximum forward voltage at 10 A DC	$V_F$		0.55		0.70		V
Maximum reverse current $T_C = 25^{\circ}\text{C}$ at rated blocking voltage $T_C = 100^{\circ}\text{C}$	$I_R$			1.0	50		mA
Typical junction capacitance (Note 1)	$C_J$		600		400		pF
Typical thermal resistance (Note 2)	$R_{\theta JC}$		2.0				$^{\circ}\text{C/W}$
Operating junction temperature range	$T_J$		-55 to +125		-55 to +150		$^{\circ}\text{C}$
Storage temperature range	$T_S$		-55 to +150				$^{\circ}\text{C}$

Notes: (1) Measured at 1MHz and applied reverse voltage of 4 Volts DC

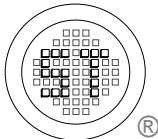
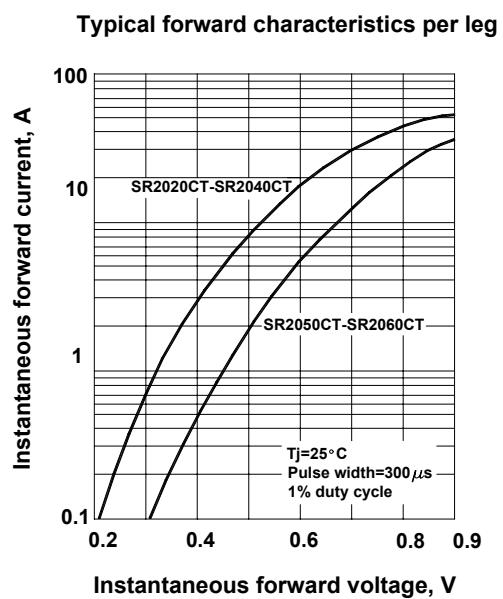
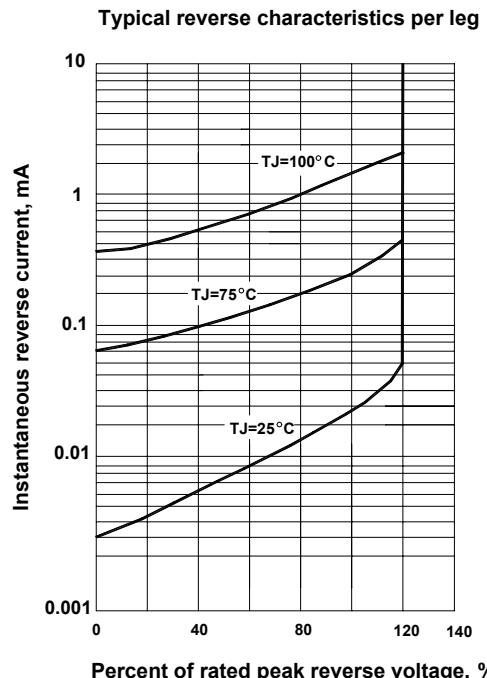
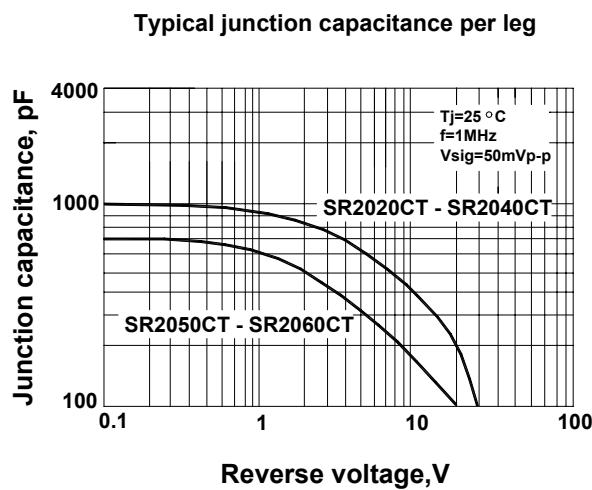
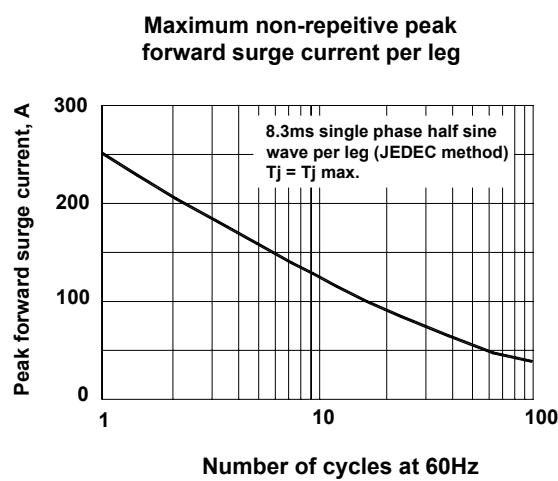
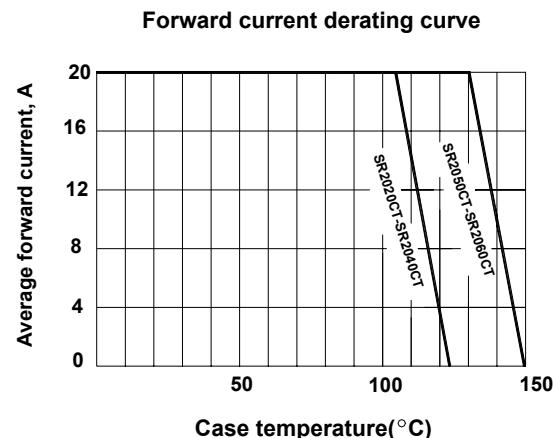
(2) Thermal Resistance from Junction to case per leg



РАДИОТЕХ

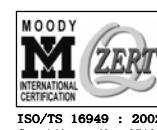
Тел.: (495) 795-0805  
 Факс: (495) 234-1603  
 Эл. почта: info@rct.ru  
 Веб: www.rct.ru

# SR2020CT THRU SR2060CT



**SEMTECH ELECTRONICS LTD.**

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001 : 2004  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 355-138-A-02-04

Dated : 04/09/2003