

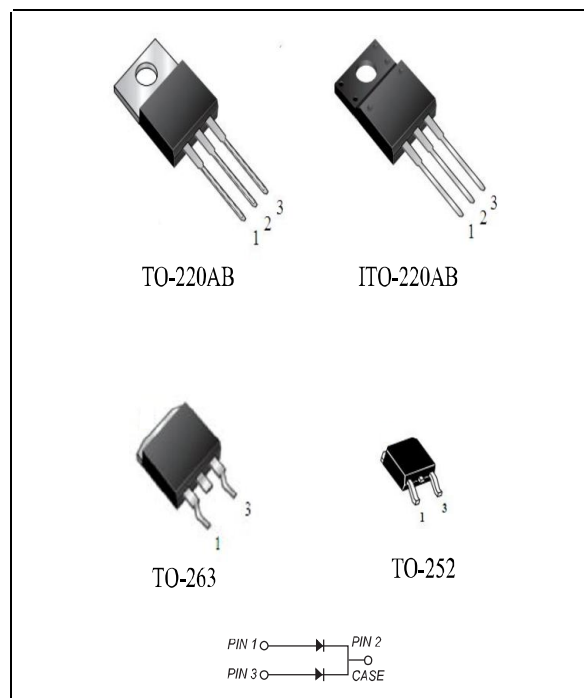
## SR1640(F)CT~SR16200(F)CT 16.0Amp Schottky Barrier Rectifiers

### Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C,MAX. for 10 seconds

### Mechanical Data

Case: (I)TO-220AB,TO-263,TO-252 molded plastic body  
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026  
 Polarity: As marked  
 Mounting Position: Any



### Maximum Ratings And Electrical Characteristics

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

	SYMBOLS	SR 1640(F)CT	SR 1660(F)CT	SR 16100(F)CT	SR 16150(F)CT	SR 16200(F)CT	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	60	100	150	200	VOLTS
Maximum RMS voltage	$V_{RMS}$	28	42	70	105	140	VOLTS
Maximum DC blocking voltage	$V_{DC}$	40	60	100	150	200	VOLTS
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$	16.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150.0					Amps
Maximum instantaneous forward voltage at 8.0A	$V_F$	0.55	0.70	0.85	0.95		Volts
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	$I_R$	0.5		0.2		mA	
		20.0		10.0			
Typical junction capacitance (NOTE 1)	$C_J$	300		250		pF	
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	22					$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	-55 to +125		-55 to +150		$^\circ\text{C}$	
Storage temperature range	$T_{STG}$	-55 to +150					$^\circ\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to case