

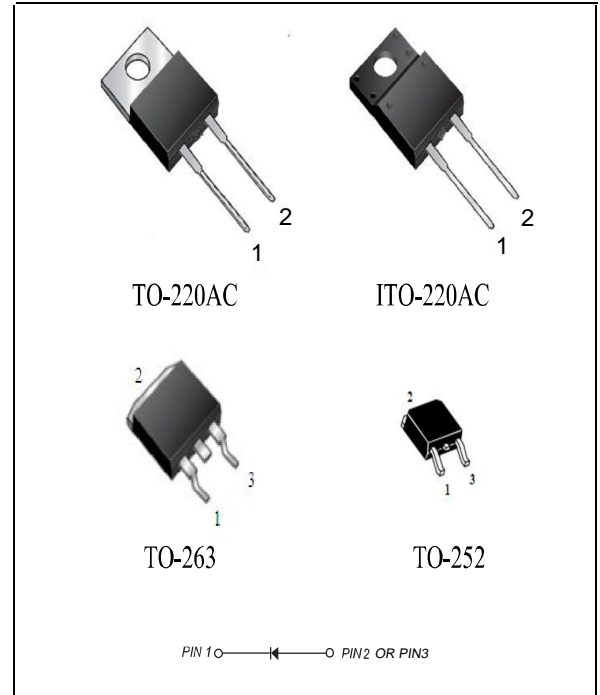
## SR840(F)~SR8200(F) 8.0Amp Schottky Barrier Rectifiers

### 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-220AC,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 840(F)	SR 860(F)	SR 8100(F)	SR 8150(F)	SR 8200(F)	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)	$I_{(AV)}$	8.0					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)	$R_{\theta JC}$	21					°C/W
Operating junction temperature range	$T_J$	-55 to +125		-55 to +150		°C	
Storage temperature range	$T_{STG}$	-55 to +150					°C

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

2.Thermal resistance from junction to case