

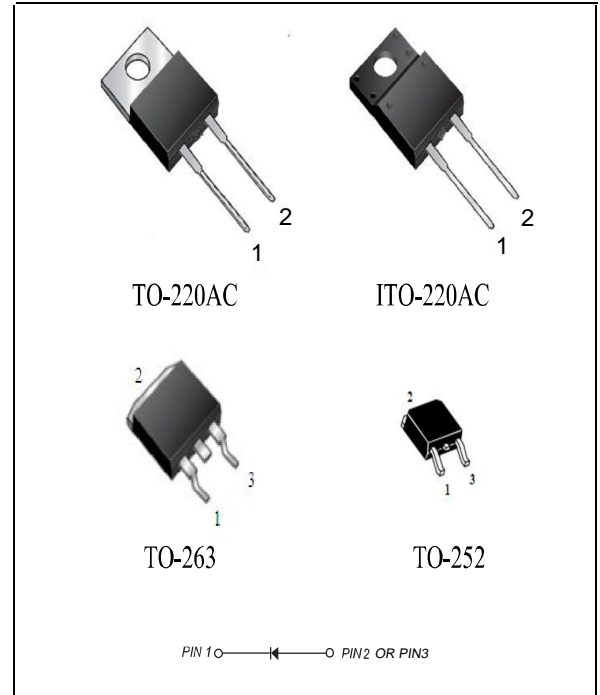
SR540(F)~SR5200(F) 5.0Amp Schottky Barrier Rectifiers

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 540(F)	SR 560(F)	SR 5100(F)	SR 5150(F)	SR 5200(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)	$I_{(AV)}$	5.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	120.0					Amps
Maximum instantaneous forward voltage at 5.0A	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