

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	SR 4020PT	SR 4030PT	SR 4040PT	SR 4050PT	SR 4060PT	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 at Tc=100 $^\circ\!\!\mathbb{C}$	I _(AV)	40					А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	400					А
Maximum Instantaneous Forward Voltage 20.0A (Note 3)	VF	0.55 0.70			70	V	
Maximum D.C. Reverse Current @ Tc=25℃ at Rated DC Blocking Voltage @ Tc=100℃	I _R	1.0 75					mA mA
Typical Thermal Resistance Per Leg (Note 1)	R <i>θ</i> JC	1.2					°C/W
Typical Junction Capacitance (Note 2)	Cj	1100			60	600	
Operating Junction Temperature Range	TJ	-65 to +125		-65 to +150		Ĉ	
Storage Temperature Range	T _{STG}	-65 to +150					°C

Notes: 1. Thermal Resistance from Junction to Case Per Leg, with Heatsink size (4" x 6" x 0.25") Al-Plate.

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

3. 300 us Pulse Width, 2% Duty Cycle



