

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

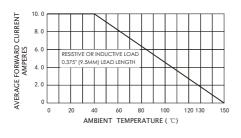
TYPE NUMBER		SR1045L	UNIT
Maximum Recurrent Peak Reverse Voltage		45	V
Maximum RMS Voltage		31	V
Maximum DC Blocking Voltage		45	V
Maximum Average Forward Rectified	Current		
See Fig. 1		10.0	A
Peak Forward Surge Current, 8.3 ms	single half sine-wave		
superimposed on rated load (JEDEC method)		150	A
Maximum Instantaneous Forward Voltage at10.0A		0.45	V
Maximum DC Reverse Current	Ta=25 ℃	500	uA
at Rated DC Blocking Voltage	Ta=100°C	100	mA
Typical Junction Capacitance (Note1)		250	pF
Typical Thermal Resistance R0JA (Note 2)		20	°C/W
Operating Temperature Range TJ		-65 —+150	C°
Storage Temperature Range Tsrc		-65-+150	°C

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

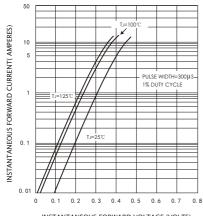
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5" (12.7mm) Lead Length.

## RATING AND CHARACTERISTIC CURVES (SR1045L)









INSTANTANEOUS FORWARD VOLTAGE (VOLTS)

## FIG.5-TYPICAL JUNCTION CAPACITANCE

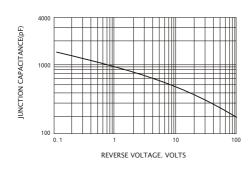
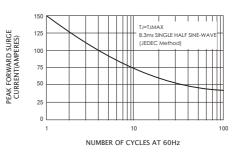


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



## FIG.4-TYPICAL REVERSE CHARACTERISTICS

