

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%.

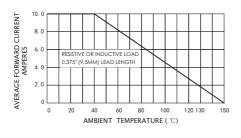
TYPE NUMBER		SR1045L	UNIT
Maximum Recurrent Peak Reverse Voltage		45	V
Maximum RMS Voltage		31	V
Maximum DC Blocking Voltage		45	V
Maximum Average Forward Rectified	Current		
See Fig. 1		10.0	A
Peak Forward Surge Current, 8.3 ms	single half sine-wave		
superimposed on rated load (JEDEC method)		150	A
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.

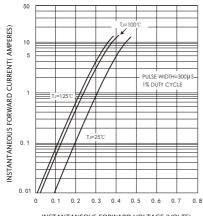
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5" (12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (SR1045L)









INSTANTANEOUS FORWARD VOLTAGE (VOLTS)

FIG.5-TYPICAL JUNCTION CAPACITANCE

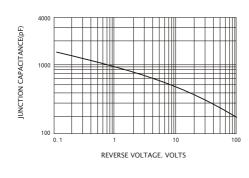


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

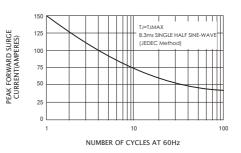


FIG.4-TYPICAL REVERSE CHARACTERISTICS

