

Single phase, half wave, 60 Hz, resistive or inductive For capacitive load, derate current by 20%.



SMC

2003-5

**MAXIMUM RATINGES** ( At TA =  $25^{\circ}$ C unless otherwise noted )

RATINGS	SYMBOL	SCM34LPT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	40	Volts
Maximum RMS Voltage	VRMS	28	Volts
Maximum DC Blocking Voltage	VDC	40	Volts
Maximum Average Forward Rectified Current	lo	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100	Amps
Typical Junction Capacitance (Note 2)	CJ	250	pF
Typical Thermal Resistance (Note 1)	RθJL	15	°C / W
Operating and Storage Temperature Range	TJ, Tsтg	-65 to +125	°C

## **ELECTRICAL CHARACTERISTICS** ( At $TA = 25^{\circ}C$ unless otherwise noted )

CHARACTERISTICS		SYMBOL	SCM34LPT	UNITS
Maximum Instantaneous Forward Voltage	@ IF = 1.0A	VF	0.37	Volts
	@ IF= 3.0A		0.42	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	lr	1.0	mAmps
	@ TA = 100°C		40	mAmps

NOTES: 1. Thermal Resistance (Junction to Lead): PC Board Mounted on 0.55 X 0.55" (14 X 14mm) copper pad area. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

