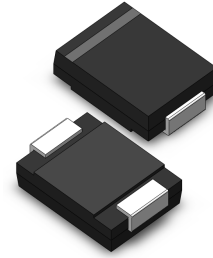


VOLTAGE RANGE: 30 - 40V
CURRENT: 5.0 A

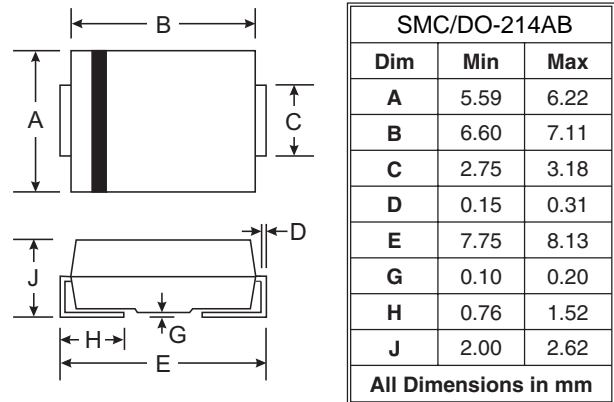


Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

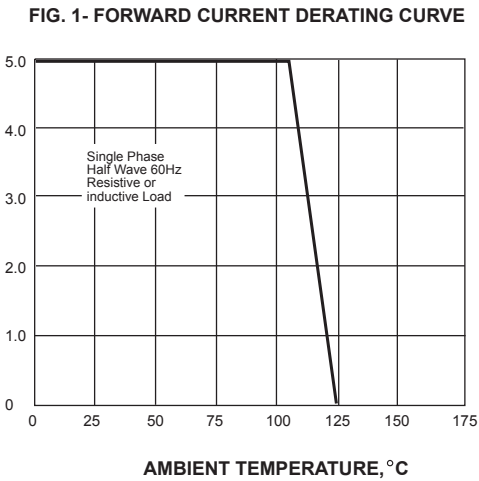
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SSC53L	SSC54L	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	30	40	V
Working Peak Reverse Voltage	V _{RWM}			
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{R(RMS)}	21	28	V
Average Rectified Output Current @T _L = 90°C	I _O	5.0		A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	175		A
Forward Voltage @I _F = 5.0A	V _{FM}	0.50		V
Peak Reverse Current @T _A = 25°C	I _{RM}	0.5		mA
At Rated DC Blocking Voltage @T _A = 100°C		20		
Typical Thermal Resistance (Note 1)	R _{θJL}	14		°C/W
	R _{θJA}	50		
Operating Temperature Range	T _J	-65 to +125		°C
Storage Temperature Range	T _{STG}	-65 to +150		°C

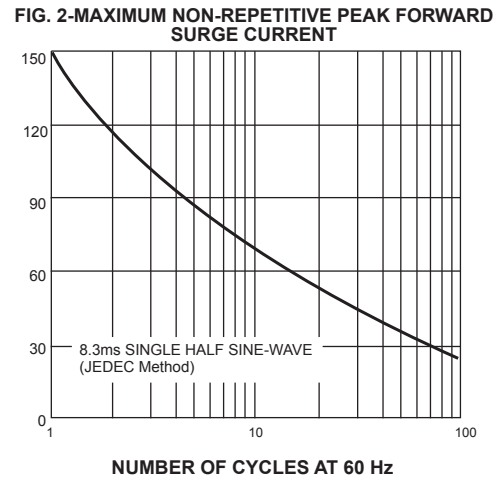
Note: 1. Mounted on P.C. Board with 14mm² copper pad area.

RATINGS AND CHARACTERISTIC CURVES SSC53L BTHRU SSC54L

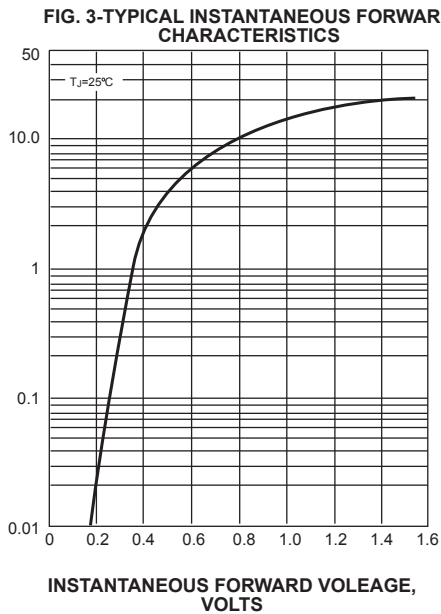
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



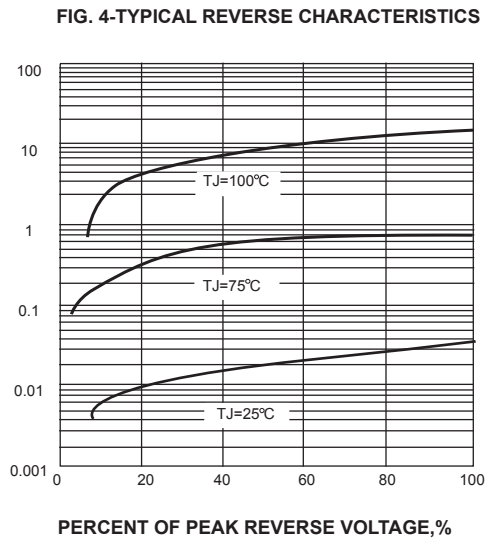
PEAK FORWARD SURGE CURRENT, AMPERES



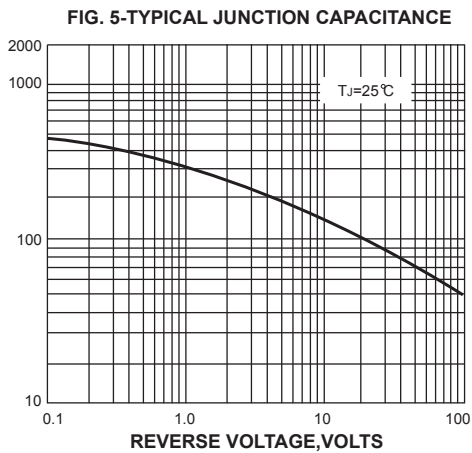
INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W

