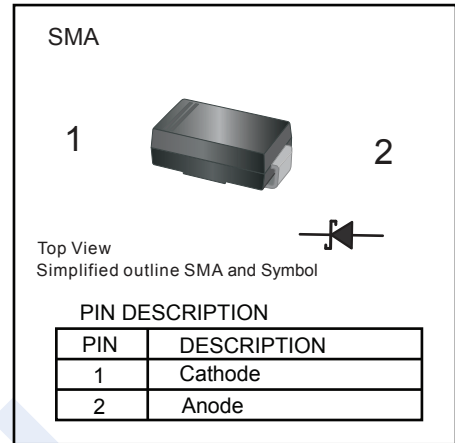


Schottky Barrier Rectifier

SS34L

■ Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



■ Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter	Symbol	SS34L	Unit	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V	
Maximum RMS voltage	V_{RMS}	28		
Maximum DC Blocking Voltage	V_{DC}	40		
Maximum Instantaneous Forward Voltage at 3 A	V_F	0.45		
Maximum Average Forward Rectified Current at $T_c=100^\circ\text{C}$	$I_{F(AV)}$	3	A	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	80		
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^\circ\text{C}$ 0.3	mA	
		$T_a=100^\circ\text{C}$ 5		
Typical Junction Capacitance	*1	C_j	450	pF
Typical thermal resistance	*2	R_{thJA}	60	°C/W
Junction Temperature		T_j	150	°C
Storage Temperature		T_{stg}	-55 ~ +150	

* 1 Measured at 1MHz and applied reverse voltage of 4V D.C

* 2 P.C.B. mounted with 2" × 2" (5×5 cm) copper pad areas.

Schottky Barrier Rectifier

SS34L

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

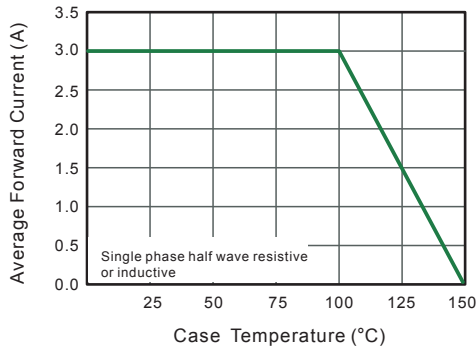


Fig.2 Typical Reverse Characteristics

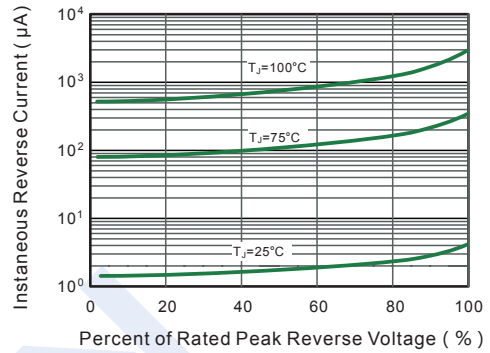


Fig.3 Typical Forward Characteristic

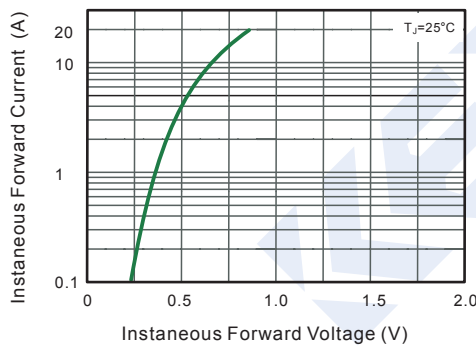


Fig.4 Typical Junction Capacitance

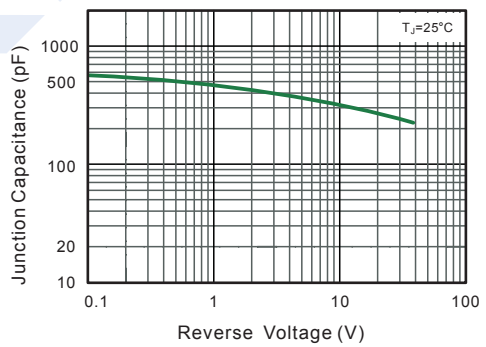


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

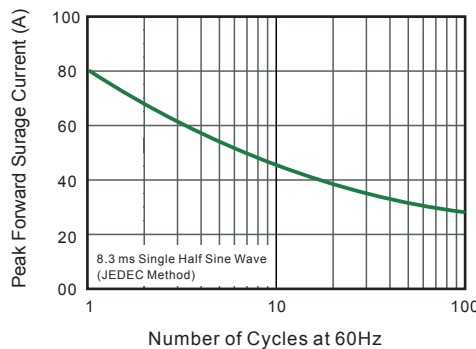
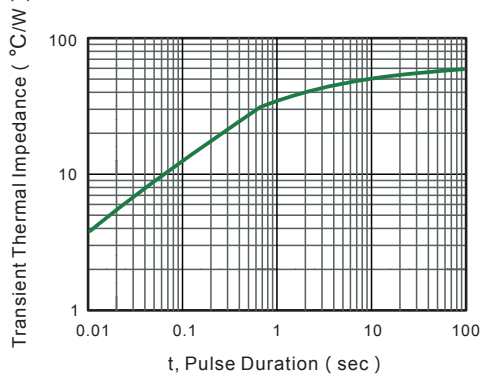


Fig.5- Typical Transient Thermal Impedance

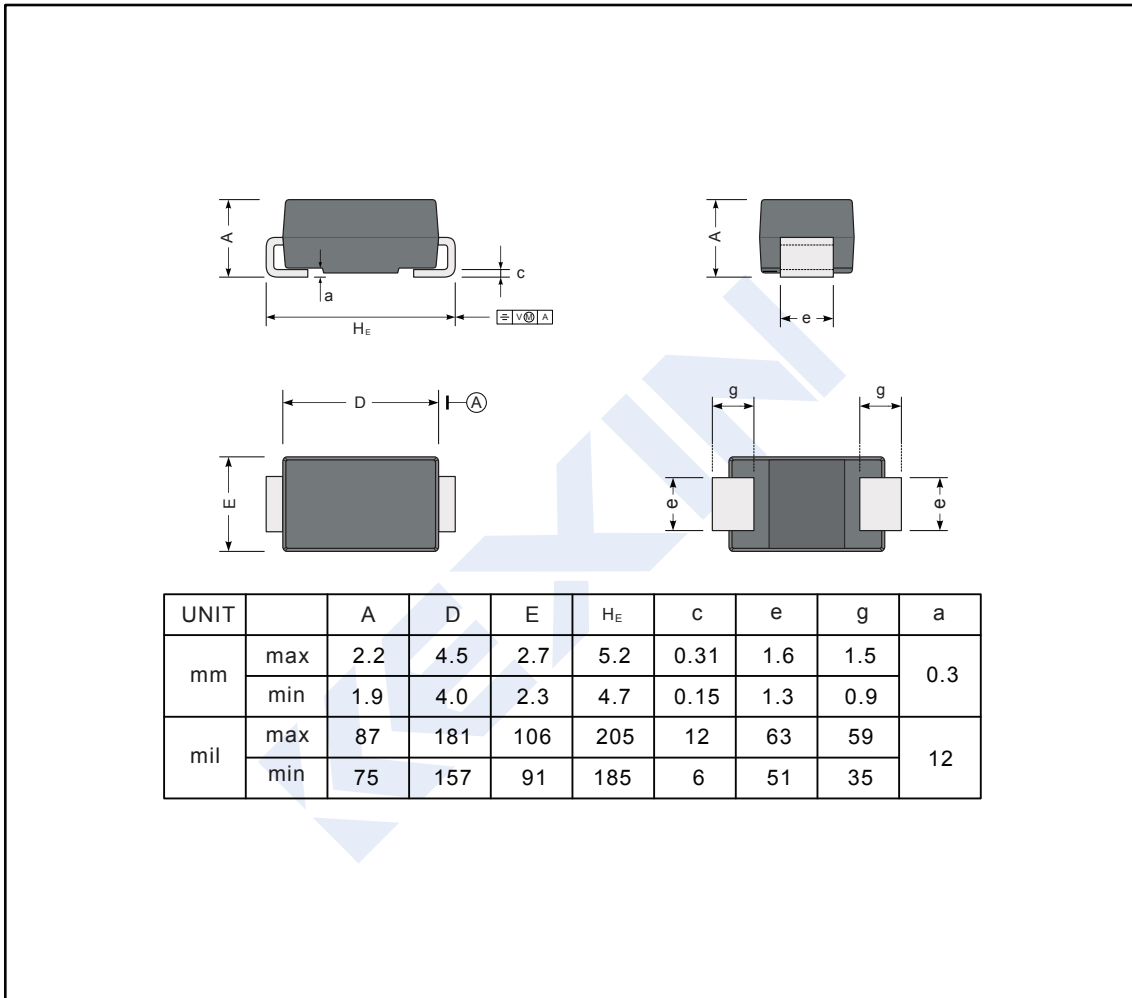


Schottky Barrier Rectifier SS34L

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SMA



■ The recommended mounting pad size

