

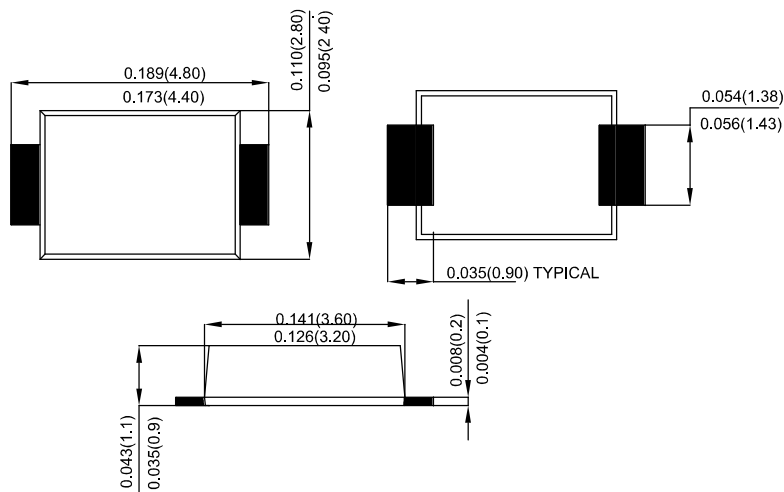
Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 35A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Moeded plastic SMAF
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number

SMAF



Dimiensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	S14L	S16L	S18L	S110L	S115L	S120L	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	150	200	V
Average Rectified Output Current @T _A =90℃	I _O	1.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	35						A
Forward Voltage @I _F =1.0A (Note 1)	V _{FM}	0.45	0.5	0.6	0.8		V	
Peak Reverse Current @T _A =25℃	I _R	0.1		0.05			mA	
At Rated DC Blocking Voltage @T _A =100℃		10		5				
Typical Junction Capacitance	C _J	28						pF
Typical Thermal Resistance per leg (Note 2)	R _{θJL}	88						℃/W
Operating Temperature Range	T _J	-55 to+150						℃
Storage Temperature Range	T _{STG}	-55 to +150						℃

Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

2.Mounted on P.C.Board with 5.0 mm² (0.13mm thick) copper pad areas.

S14L THRU S120L

Fig. 1 Forward Current Derating Curve

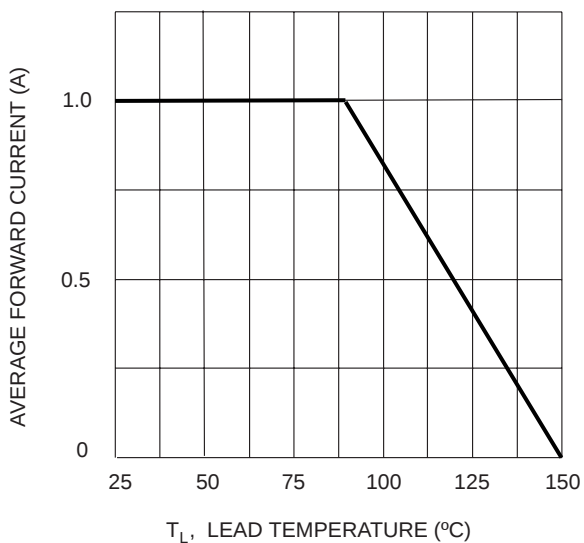


Fig. 2 Typ. Forward Characteristics

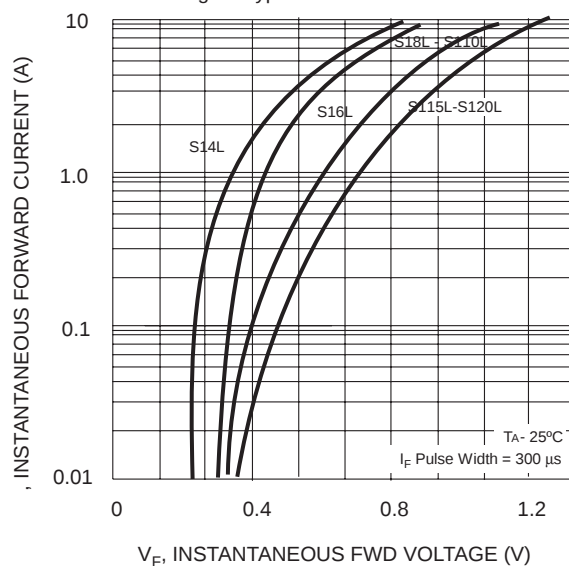


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

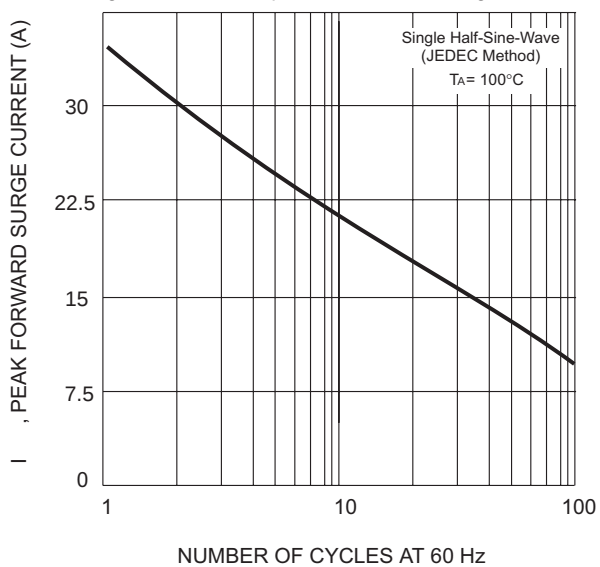


Fig. 4 Typical Reverse Characteristics (per element)

