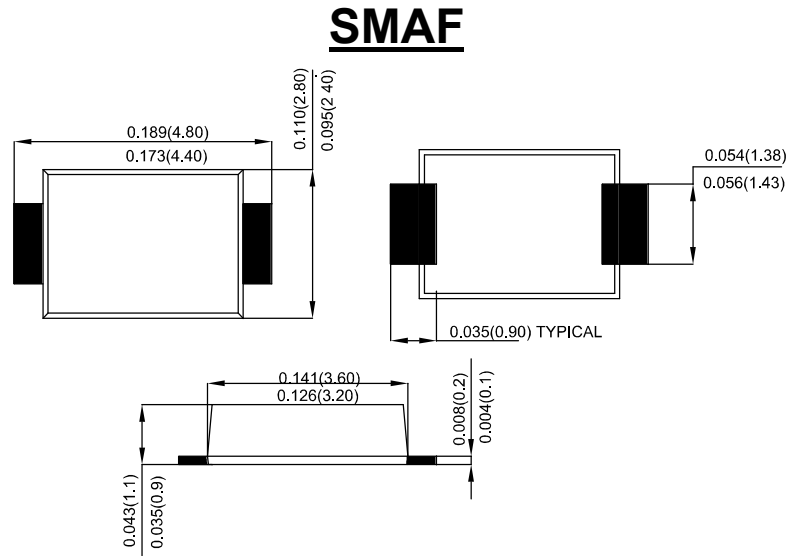


Features

- Schottky Brier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 60A 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



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	S24L	S26L	S28L	S210L	S215L	S220L	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 @ $T_A = 90^\circ C$	I_o	2.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60						A
Forward Voltage @ $I_F = 2.0A$	V_{FM}	0.45	0.5	0.6	0.8			V
Peak Reverse Current @ $T_A = 25^\circ C$	I_R	0.1		0.05				mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ C$		10		5				
Typical Junction Capacitance (Note 2)	C_J	28						pF
Typical Thermal Resistance per leg	$R_{\theta JL}$	88						$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150						$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150						$^\circ C$

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.

S24L THRU S220L

Fig. 1 Forward Current Derating Curve

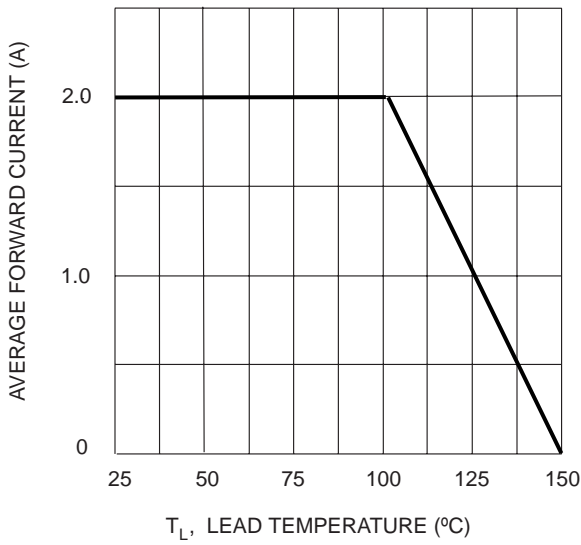


Fig. 2 Typ. Forward Characteristics

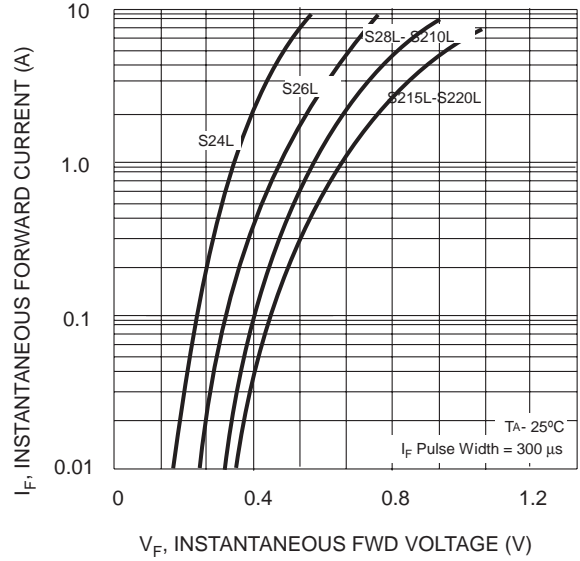


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

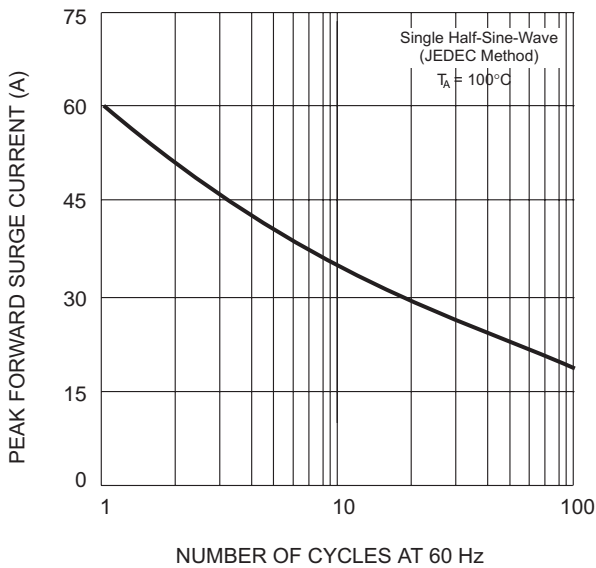


Fig. 4 Typical Reverse Characteristics (per element)

