



SS54LC ~SS5200LC

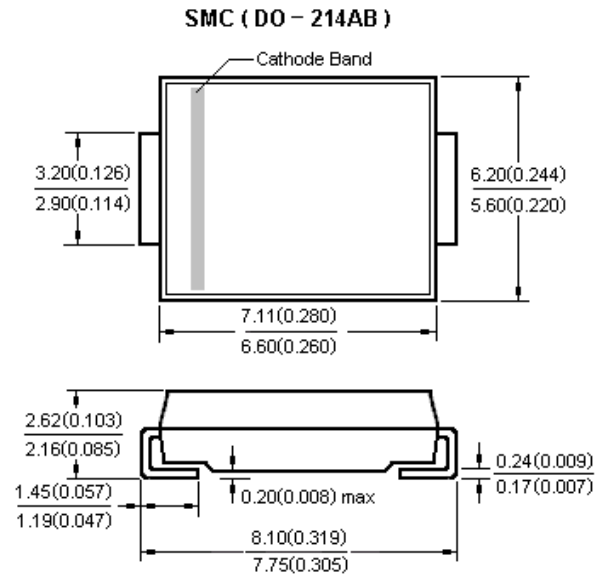
Surface Mount Low VF Schottky Rectifiers

Features

- High current capacity, low V_F
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

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



Dimensions in millimeters and (inches)

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	SS54LC	SS56LC	SS58LC	SS510LC	SS5150LC	SS5200LC	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 @ $T_L = 90^\circ\text{C}$	$I_{F(AV)}$	5.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	120						A
Forward Voltage @ $I_F = 5.0\text{A}$ (Note 1)	V_{FM}	0.45	0.55	0.75		0.85		V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	I_R	0.2		0.05				mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$		10		5				mA
I^2t Rating for fusing ($t < 8.3\text{ms}$)	I^2t	66.47						A^2s
Typical Junction Capacitance (Note 2)	C_J	12						pF
Typical Thermal Resistance per leg (Note 3)	$R_{\theta JA}$	65						$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +125						$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125						$^\circ\text{C}$

- Note: 1. Pulse Test with $PW = 300\mu\text{sec}$, 1% Duty Cycle.
 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
 3. Thermal Resistance from Junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

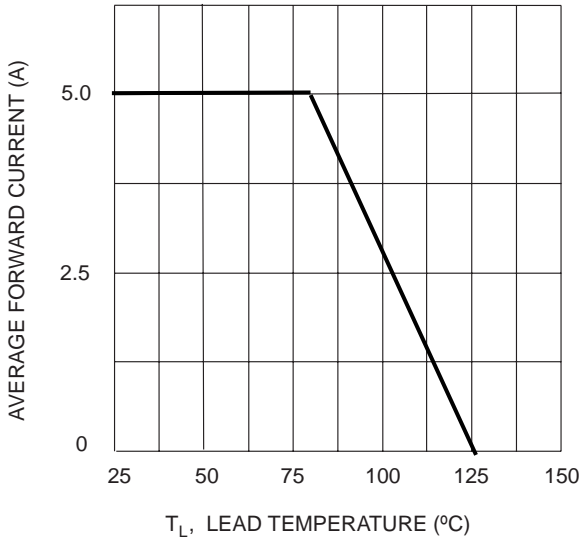


Fig. 2 Typ. Forward Characteristics

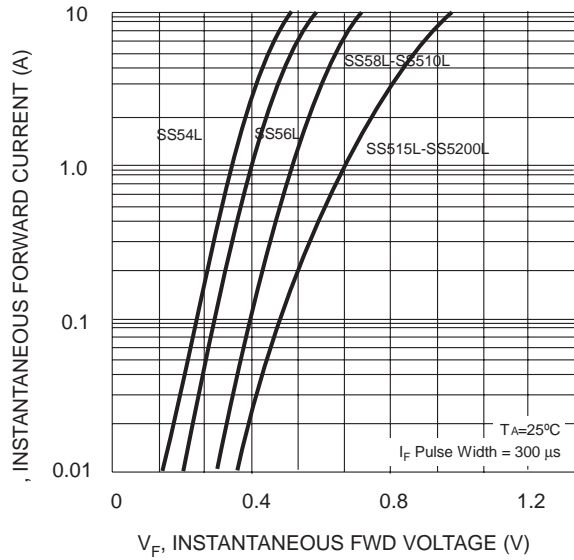


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

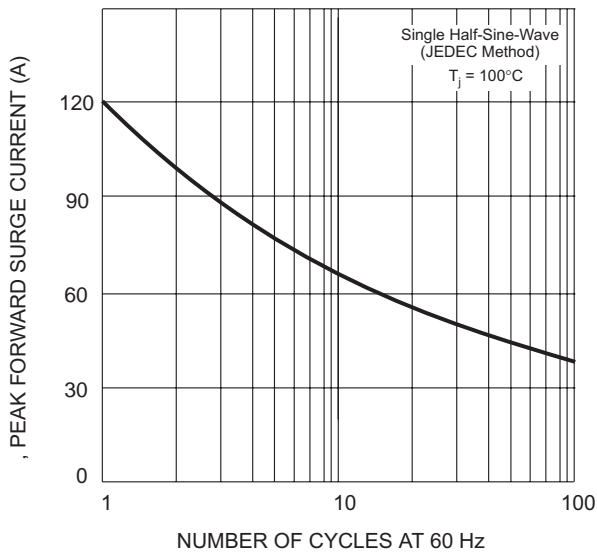
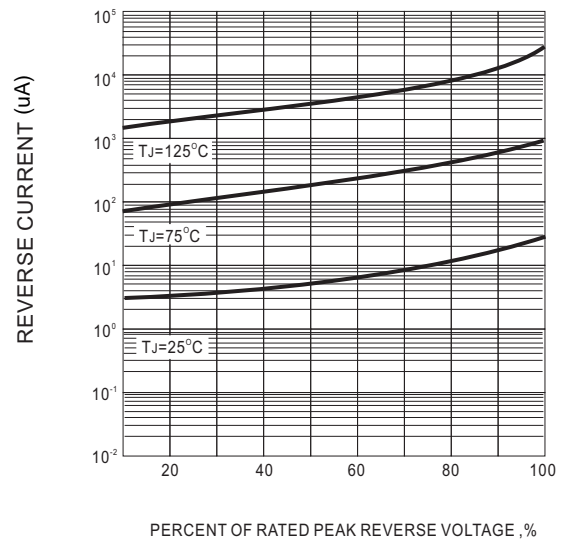


FIG.4 TYPICAL REVERSE CHARACTERISTIC



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