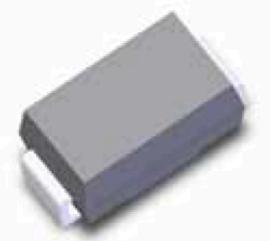


Surface Mount Schottky Barrier Rectifier**FEATURES**

- Ideal for automated placement
- Low forward voltage drop
- Low leakage current
- Meets environmental standard MIL-S-19500D
- Moisture sensitivity:level 1, per J-STD-020
- Solder dip 275 °C, 10 s
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC



DO-214AC (SMA)

TYPICAL APPLICATIONS

For use in general purpose rectification of lighting, power supplies, inverters, converters and freewheeling diodes for consumer, automotive and telecommunication.

PRIMARY CHARACTERISTICS	
I _{F(AV)}	2 A
V _{RRM}	20 V to 100 V
I _{FSM}	45A
V _F	0.42V, 0.47V, 0.72V
T _J max.	125 °C , 150 °C

MECHANICAL DATA

Case: DO-214AC, molded epoxy body, Epoxy meets UL 94V-0 flammability rating

Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22B-106

Polarity: Laser Band Denotes Cathode Band

MAXIMUM RATINGS (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	SL22A	SL23A	SL24A	SL25A	SL26A	SL27A	SL28A	SL29A	SL210A	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	70	80	90	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	70	80	90	100	V
Maximum average forward rectified current at TL (See Fig.1)	I _{F(AV)}	2								A	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	45								A	
Operating junction temperature range	T _J	- 55 to + 125			- 55 to + 150			°C			
Storage temperature range	T _{stg}	- 55 to + 150								°C	

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

PARAMETER	TEST CONDITIONS	SYMBOL	SL22A	SL23A	SL24A	SL25A	SL26A	SL27A	SL28A	SL29A	SL210A	UNIT
Maximum instantaneous forward voltage	$IF=2\text{ A}$	V_F		0.42		0.47		0.72				V
Maximum DC reverse current at rated DC blocking voltage	$TA=25^\circ\text{C}$	I_R		0.2				0.15				mA
	$TA=100^\circ\text{C}$			10				TBD				
Typical junction capacitance	4.0 V, 1 MHz	C_J						175				pF

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

PARAMETER	SYMBOL	SL22A	SL23A	SL24A	SL25A	SL26A	SL27A	SL28A	SL29A	SL210A	UNIT
Maximum thermal resistance	$R_{\theta JA}$ (1)							TBD			°C/W
	$R_{\theta JT}$ (2)							TBD			

Notes: (1) Thermal resistance from junction to ambient, $0.197 \times 0.197''$ (5.0×5.0mm) copper pads to each terminal

(2) Thermal resistance from junction to terminal, $0.197 \times 0.197''$ (5.0×5.0mm) copper pads to each terminal

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25^\circ\text{C}$ unless otherwise noted)

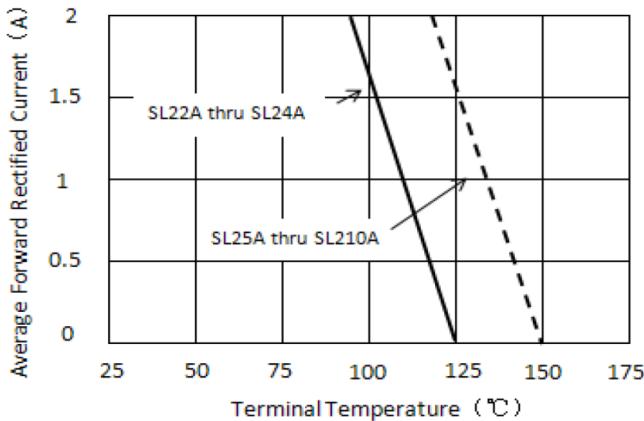


Figure 1. Forward Current Derating Curve

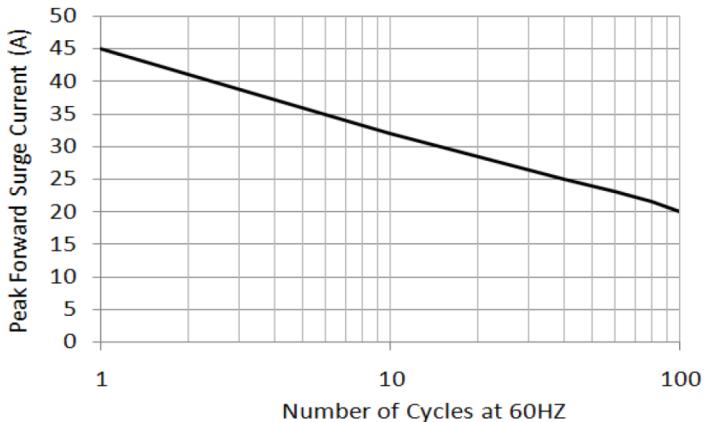


Figure 2. Maximum Non-repetitive Peak Forward Surge Current

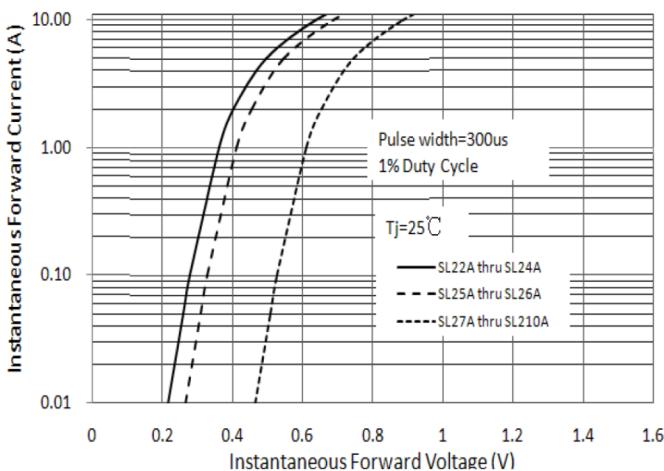


Figure 3. Typical Instantaneous Forward Characteristics

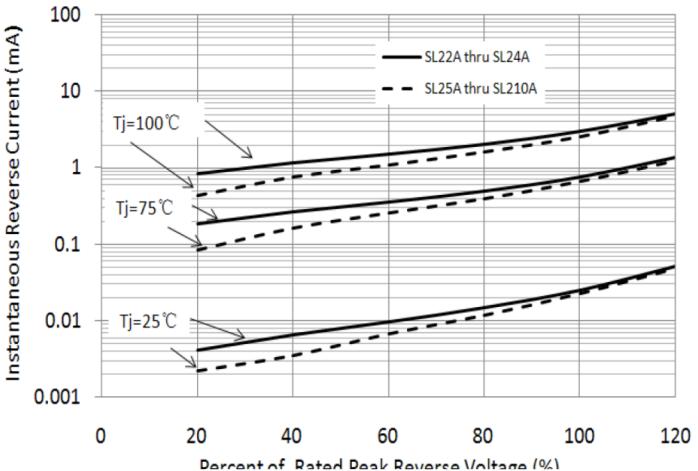


Figure 4. Typical Reverse Characteristics

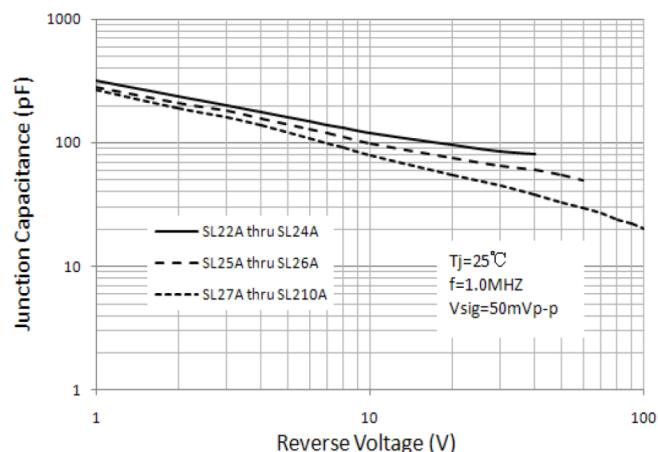


Figure 5. Typical Junction Capacitance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

