SL32 thru SL34.

Surface Mounted Schottky Barrier Rectifiers

SMC

Features

- Low forward voltage drop
- High current capability
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- High temperature soldering guaranteed: 260℃/10 seconds
- Halogen-free according to IEC 61249-2-21 definition

Primary characteristics

$I_{F(AV)}$	3A
V_{RRM}	20V to 40V
I_{FSM}	80A
I_{RM}	0.2mA
V_{FM}at I_F=3A	0.42V
T_J max.	150 ºC

Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical data

- SMC
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.

Maximum rating (Ta=25ºCunless otherwise noted)

Parameter		Sym	SMC			Unit
			SL32	SL33	SL34	
Max. repetitive peak reverse voltage		V_{RRM}	20	30	40	V
Max. RMS reverse voltage		V_{RMS}	14	21	28	V
Max. DC blocking voltage		V_{DC}	20	30	40	V
Max. average forward current		$I_{F(AV)}$	3			A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I_{FSM}	80			A
Max. instantaneous forward voltage drop per diode		V_{FM}	0.42			V
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 ºC	I_{RM}	0.2			mA
	Ta=125 ºC		50			
Operating junction temperature		T_J	-55 ~ +150			ºC
Storage temperature		T_{STG}	-55 ~ +150			ºC
Typical thermal resistance (Note1)		$R_{\Theta J-T}$	17			ºC/W
		$R_{\Theta J-A}$	52			

Notes:

1 The thermal resistance from junction to ambient and terminal.

Orderinginformation (Example)

PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE
SL32				

Typical characteristics

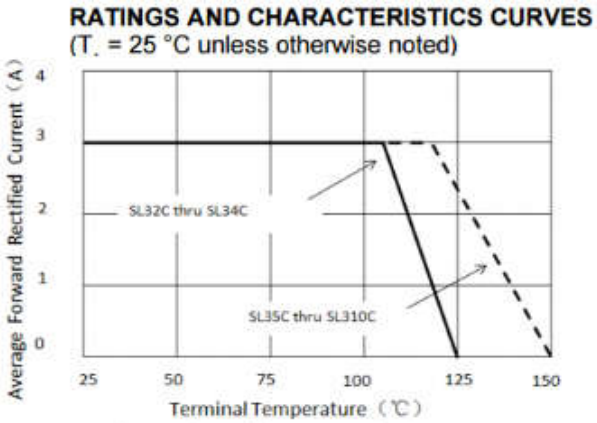


Figure 1. Forward Current Derating Curve

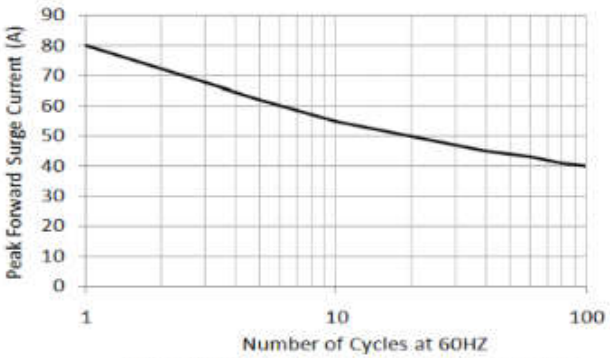


Figure 2.Maximum Non-repetitive Peak Forward Surge Current

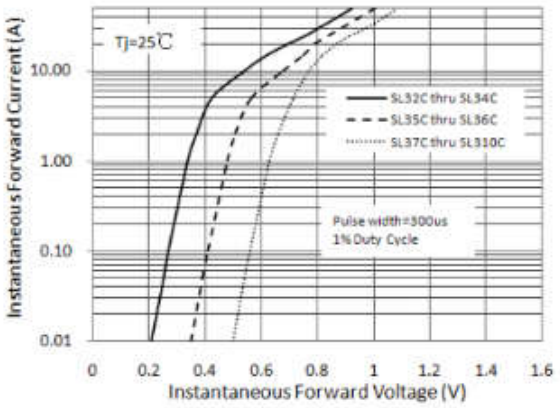


Figure 3. Typical Instantaneous Forward Characteristics

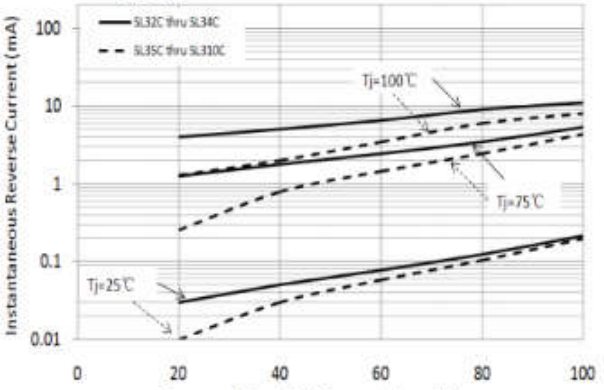
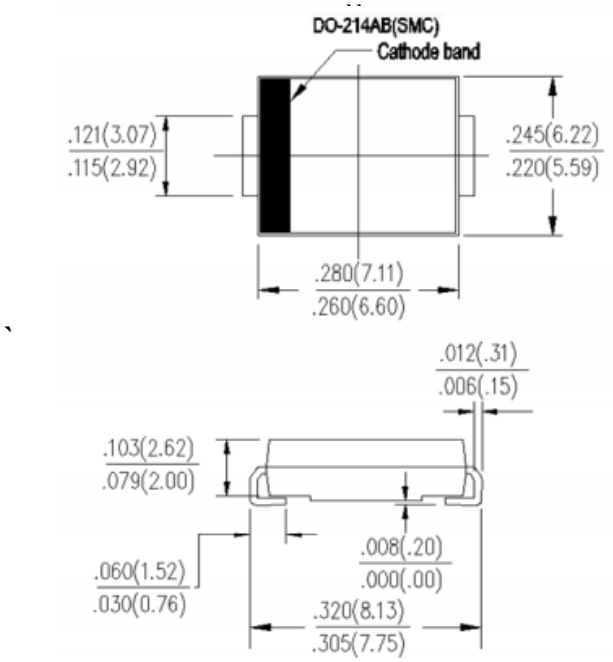


Figure 4. Typical Reverse Characteristics

Package outline dimensions



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