

SL32~SL36 Surface Mount Low VF Schottky Rectifier

Features

- Low profile package
- Ideal for automated placement
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering: 260 ℃/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC



SMA (DO - 214AC)

Major Ratings and Characteristics

I _{F(AV)}	3.0A
V _{RRM}	20 V to 60 V
I _{FSM}	100A
V _F	0.40V, 0.65V
T _j max.	125 °C

Mechanical Date

- Case: JEDEC DO-214AC molded plastic
- Terminals: Solder plated, solderable per JESD22-B102D
- Polarity: Laser band denotes cathode end

Maximum Ratings & Thermal Characteristics

$(T_A = 25 \degree C \text{ unless otherwise noted})$						
Items	Symbol	SL32	SL33	SL34	SL36	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	60	V
Maximum RMS voltage	V _{RMS}	14	21	28	42	V
Maximum DC blocking voltage	V _{DC}	20	30	40	60	V
Maximum average forward rectified current	I _{F(AV)}	3			А	
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load	I _{FSM}	100				A
Voltage rate of change (rated V_R)	dv/dt	10000				
Thermal resistance from junction to lead ⁽¹⁾	R _{θJL}	35				°C/W
Operating junction and storage temperature range	$T_{J,}\;T_{STG}$	-65 to +125				°C

Note 1: Mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

Items	Test conditions		Symbol	SL32~34	SL36	UNIT
Instantaneous forward voltage	I _F =3.0A ⁽²⁾		V _F	0.40	0.65	V
Reverse current	V _R =V _{DC}	Tj =25 ℃		1.0		mA
		T _j =100℃	IR	20		

Note 2: Pulse test:300µs pulse width,1% duty cycle.



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Characteristic Curves (T_A=25 °C unless otherwise noted)

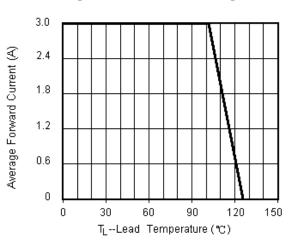
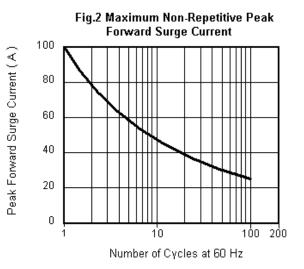
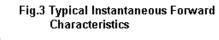


Fig.1 Forward Current Derating Curve





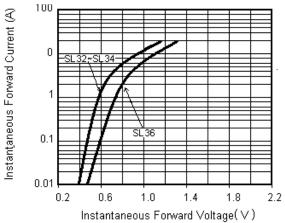
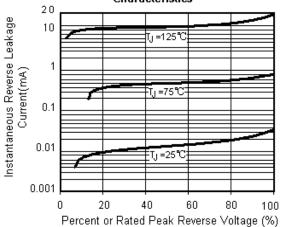
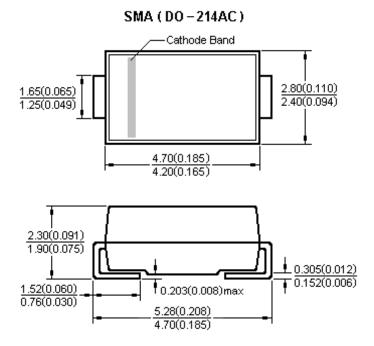


Fig.4 Typical Reverse Leakage Characteristics





Package Outline



Dimensions in millimeters and (inches)

Notice

- Product is intended for use in general electronics applications.
- Product should be worked less than the ratings; if exceeded, may cause permanent damage.or introduce latent failure mechanisms.
- The absolute maximum ratings are rated values and must not be exceeded during operation. The following are the general derating methods you design a circuit with a device.

 $I_{F(AV)}$: We recommend that the worst case current be no greater than 80% .

- T_J : Derate this rating when using a device in order to ensure high reliability. We recommend that the device be used at a T_J of below 100°C.
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