

Surface Mount Low VF Schottky Rectifiers

Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- 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)

Mechanical Date

 Case: JEDEC DO-214AC molded plastic body over glass passivated chip

 Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D

• Polarity: Laser band denotes cathode end

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					

Maximum Ratings & Thermal Characteristics

(T_A = 25 °C 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				
Peak forward surge current 8.3 ms single half sinewave superimposed on rated load	I _{FSM}	100				
Voltage rate of change (rated V _R)	dv/dt	10000			V/µs	
Thermal resistance from junction to lead ⁽¹⁾	$R_{\theta JL}$	35				
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +125			$^{\circ}$	

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)

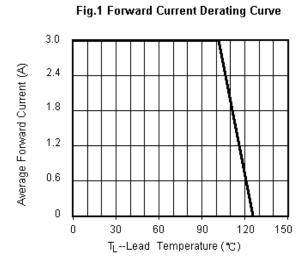
Items	Test conditions		Symbol	SL32~34	SL36	UNIT
Instantaneous forward voltage	I _F =3.0A ⁽²⁾		V_{F}	0.40	0.65	V
Reverse current	V _R =V _{DC}	T _A =25℃	ı	1.0		mA
		T _A =100℃	^I R	20		

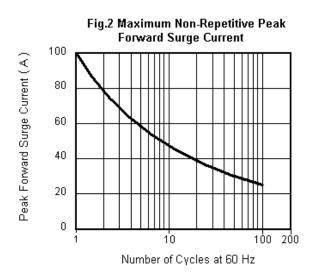
Note 2: Pulse test:300µs pulse width,1% duty cycle.

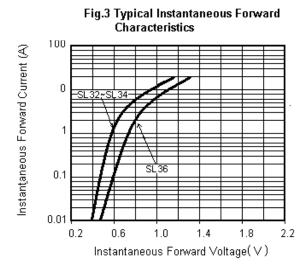


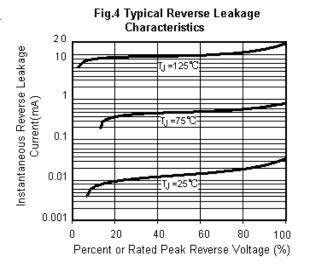
Surface Mount Low VF Schottky Rectifiers

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





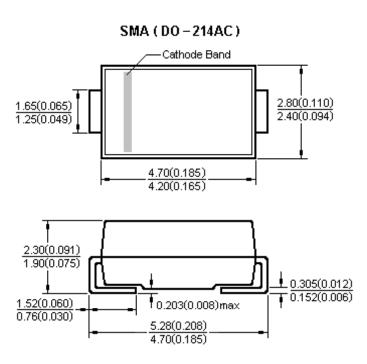






Surface Mount Low VF Schottky Rectifiers

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.
 - $I_{\text{F(AV)}}\!:\!\text{We recommend}$ that the worst case current be no greater than 80% .
 - I_{FSM}: This rating specifies the non-repetitive peak current. This is only applied for an abnormal operation, which the general during the lifespan of the device.
 - 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 125°C.
- TRR is registered trademark of Rising-sun Technology. Rising-sun Technology reserves the right to make changes to any product in this
 specification to improve reliability, functional characteristics, or design without notice.
- Rising-sun Technology does not assure any liability arising out of the applications or any product described in this specification.
- Rising-sun Technology advises customers to obtain the latest version of the device information before placing orders to verify that the
 required information is current.

