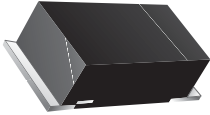




Surface Mount Low VF Schottky Rectifier

Reverse Voltage 20 to 40V
Forward Current 3.0A



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low profile surface mount package
- Built-in strain relief
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Extremely Low VF

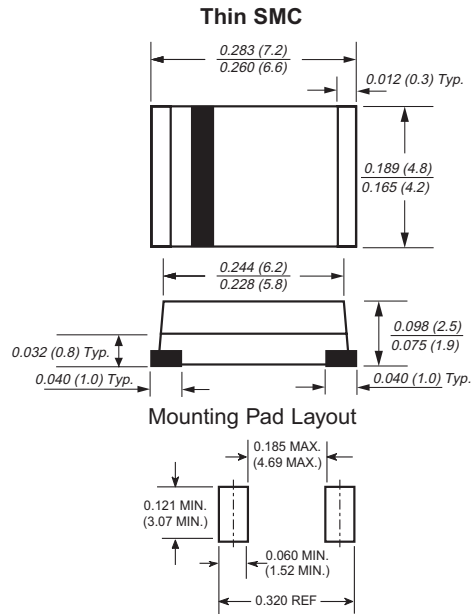
Mechanical Data

Case: JEDEC DO-214AB molded plastic body

Terminals: Solder plated, solderable per MIL-STD750, Method 2026

Polarity: Color band denotes cathode end

Weight: 0.195 g



Dimensions in inches and (millimeters)

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Parameter	Symbol	LS32F	LS34F	Unit
Device marking code		SL32	SL34	
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	V
Maximum RMS voltage	V _{RMS}	14	28	V
Maximum DC blocking voltage	V _{DC}	20	40	V
Max. average forward rectified current at T _L (See Fig. 1)	I _{F(AV)}	3.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80		A
Typical thermal resistance ⁽²⁾	R _{θJA} R _{θJL}	50 17		°C/W
Typical junction capacitance	C _J	300		pF
Operating junction temperature range	T _J	- 55 to +125		°C
Storage temperature range	T _{STG}	- 55 to +150		°C

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

Maximum instantaneous forward voltage at 3.0A ⁽¹⁾	V _F	0.38	0.40	V
Maximum DC reverse current ⁽¹⁾ at rated DC blocking voltage	I _R		1.0 10	mA
				<small>TA = 25°C TA = 100°C</small>

Notes: (1) Pulse test: 300µs pulse width, 1% duty cycle
(2) P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas



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

Fig. 1 - Forward Current Derating Curve

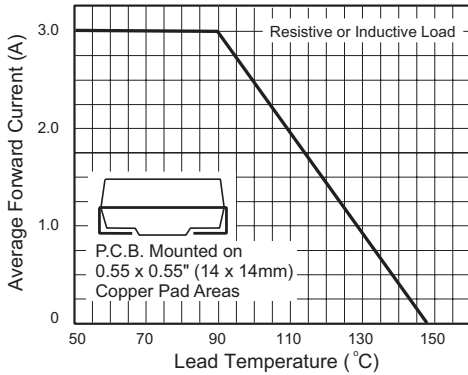


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

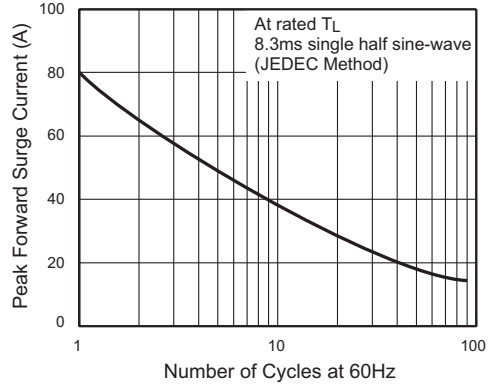


Fig. 3 - Typical Instantaneous Forward Characteristics

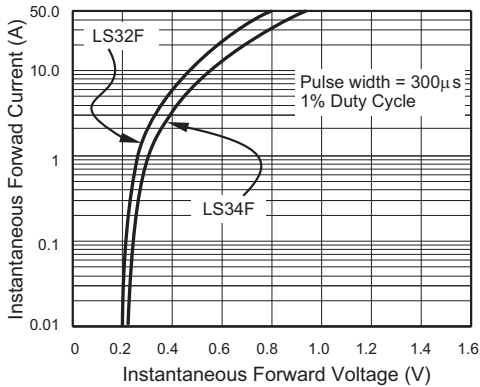


Fig. 4 - Typical Reverse Current Characteristics

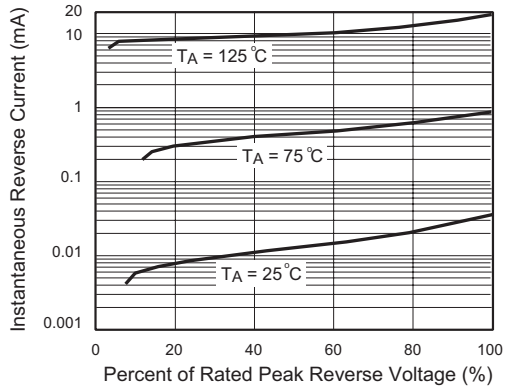


Fig. 5 - Typical Junction Capacitance

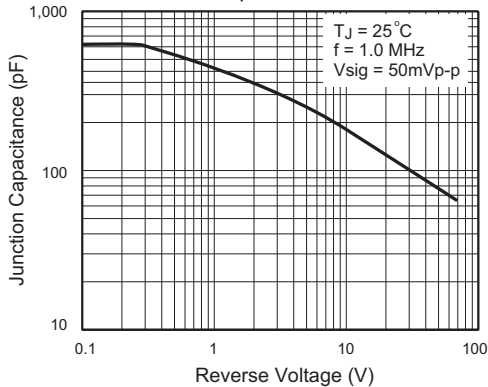


Fig. 6 - Maximum Non-repetitive Peak Forward Surge Current

