



SS34L THRU SS320L

Surface mount LVF Schottky diode
Reverse Voltage-40to200v
Forward current-3A

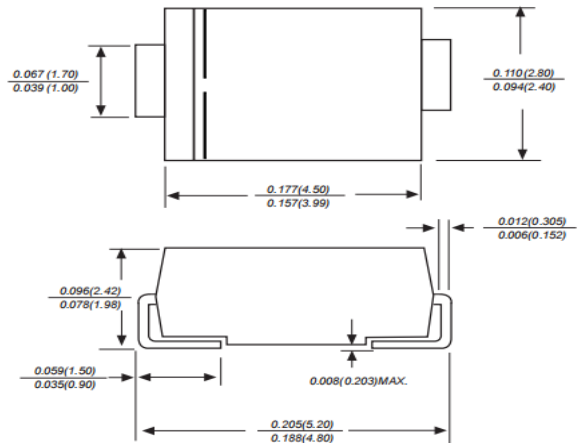
Features

LVF Schottky chip
Low VF, Low power losses, high efficiency
Ideal for surface mounted applications
Plastic Case Material has UL Flammability

Mechanical Data

Package: SMA
Terminals: Tin Plated leads, solderable per
Mil-STD-750 Method 2026
Polarity: As marked
Molding compound meets UL 94 V-0 flammability rating,
ROHS-compliant

DO-214AC/SMA



Dimensions in inches and (millimeters)

Maximum Ratings (Ta=25°C Unless otherwise specified)

Type Number	SYMBOL	SS34L	SS36L	SS38L	SS310L	SS315L	SS320L	Umit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current at TL = 100 °C	IO(AV)	3.0						A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	60.0						A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		120.0						A
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	14.9						A²S
Maximum Forward Voltage at 3.0A DC	V _{FM}	0.45	0.55	0.65		0.85		V
Maximum Reverse Current TA = 25 °C	IR	0.5		0.2			mA	
at Rated DC Blocking Voltage TA = 100 °C		5		2			mA	
Typical Thermal Resistance	R _{QJA}	65.0						°C/W
Operating Junction Temperature Range	T _J	—55to+150						°C
Storage Temperature Range	T _{STG}	—55to+150						°C



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FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

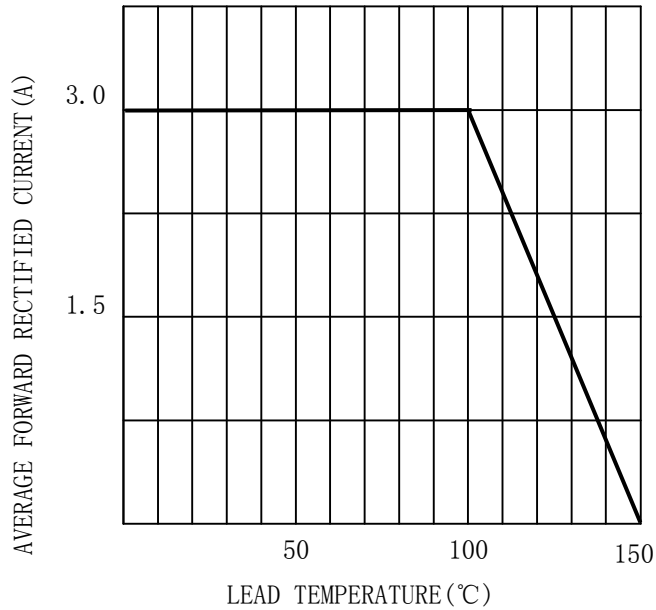


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

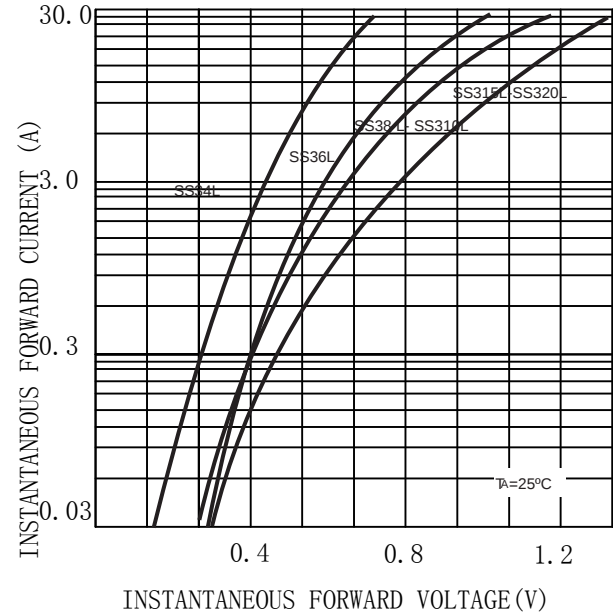


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

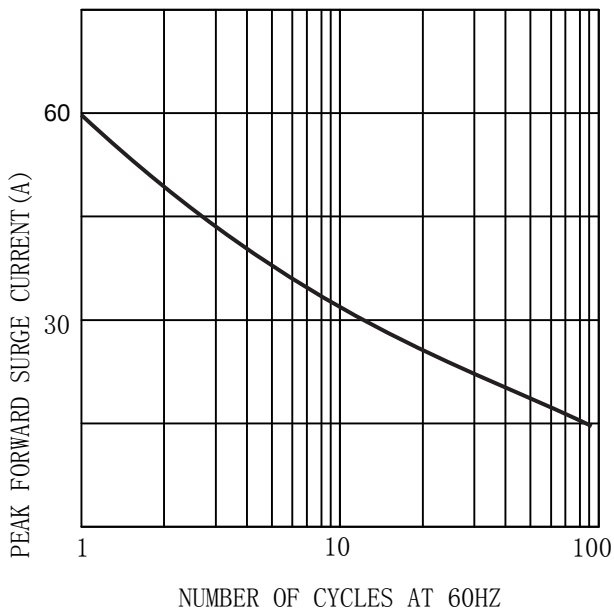


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

