



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SSL32 THRU SSL34

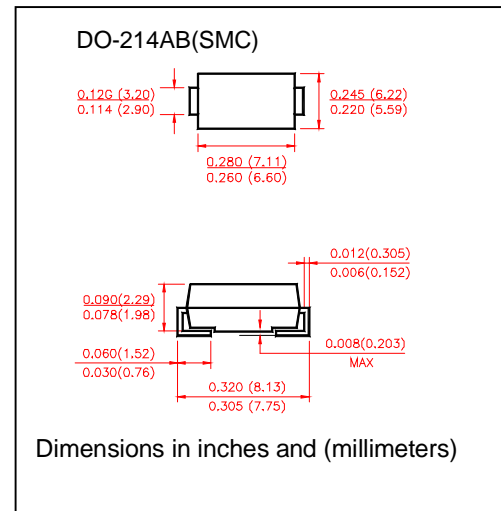
VOLTAGE RANGE 20 to 40 Volts
CURRENT 3.0 Ampere

FEATURES

- Low profile surface mount package
- Built-in strain relief
- High switching speed, low V_F
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing ,and polarity protection applications
- Guardring for over voltage protection

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy :UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce, 0.25 gram-DO-214AB(SMC)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified.
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%.

	SYMBOLS	SSL32	SSL33	SSL34	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	Volts
Maximum RMS Voltage	V_{RMS}	20	30	40	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at T_L see figure1 $T_L=95^\circ C$	$I_{(AV)}$	3.0			Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80			Amps
Maximum Instantaneous Forward Voltage @ 3.0A (Note1)	V_F	0.38		0.45	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$T_A = 25^\circ C$	I_R			mA
	$T_A = 100^\circ C$				
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55			°C/W
	$R_{\theta JL}$	12			
Operating Junction Temperature	T_J	(-55 to +150)			°C
Storage Temperature Range	T_{STG}	(-55 to +150)			°C

Notes:

1. Pulse test: 300 μ s pulse width, 1% duty cycle
2. PCB mounted with 0.55" \times 0.55" (14.0cm \times 14.0cm) copper pads



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RATING AND CHARACTERISTIC CURVES SSL32 THRU SSL34

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

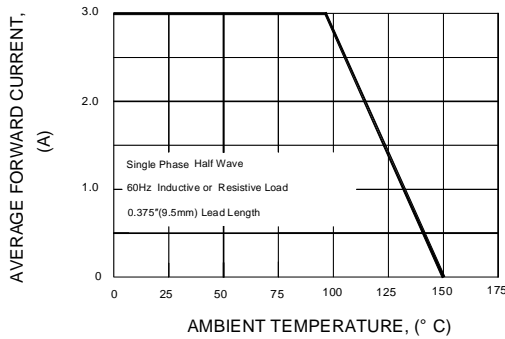


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

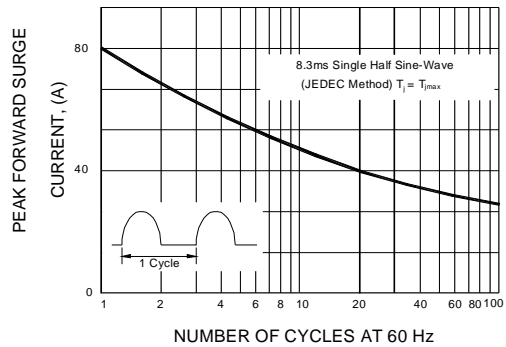


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

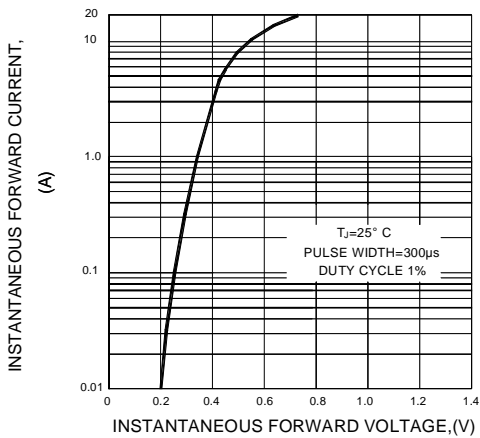


FIG.4-TYPICAL REVERSE CHARACTERISTICS

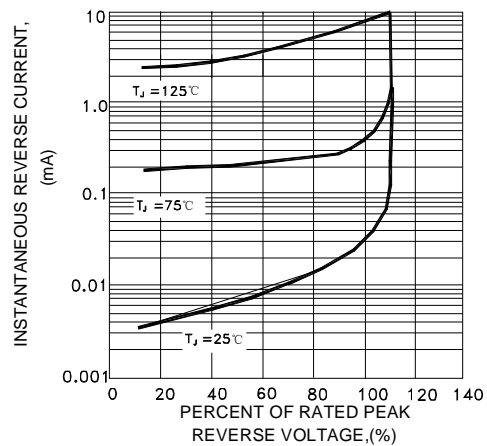


FIG.5-TYPICAL JUNCTION CAPACITANCE

