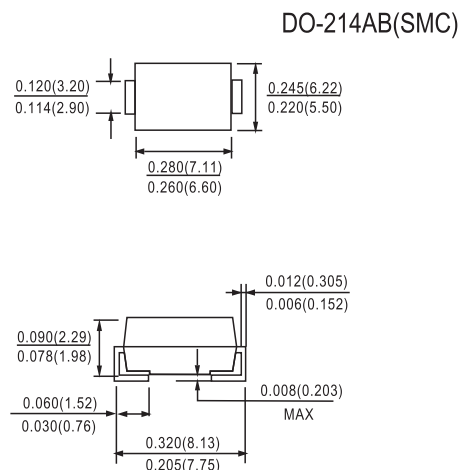


FEATURES

- 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)



Dimensions in inches and (millimeters)

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	SSL42	SSL43	SSL44	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		I _(AV)	4.0			Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	100			Amps
Maximum Instantaneous Forward Voltage @ 4.0A(Note1)		V _F	0.42		0.46	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T _A = 25	I _R	0.5			mA
	T _A = 100		10.0			
Typical Thermal Resistance (Note 2)		R _{JA}	55			°C/W
		R _{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 0.2" $\times$ 0.2" (5.0cm $\times$ 5.0cm) copper pads

RATINGS AND CHARACTERISTIC CURVES

SSL42 THRU SSL44

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

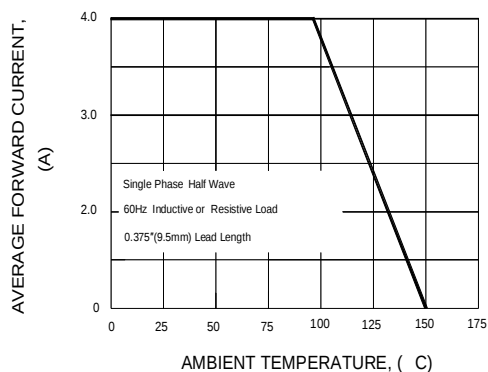


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

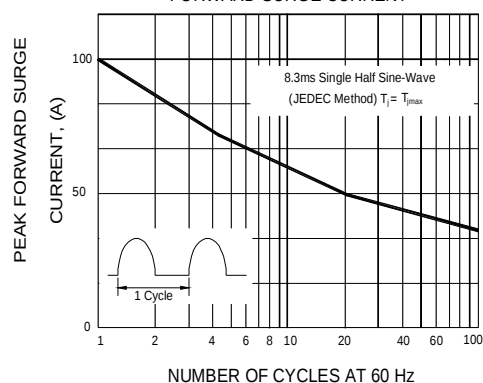


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

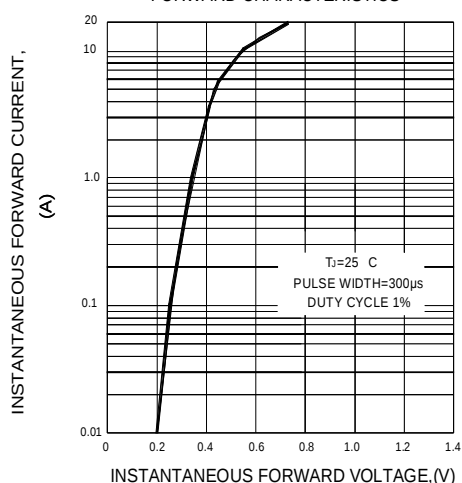


FIG.4-TYPICAL REVERSE CHARACTERISTICS

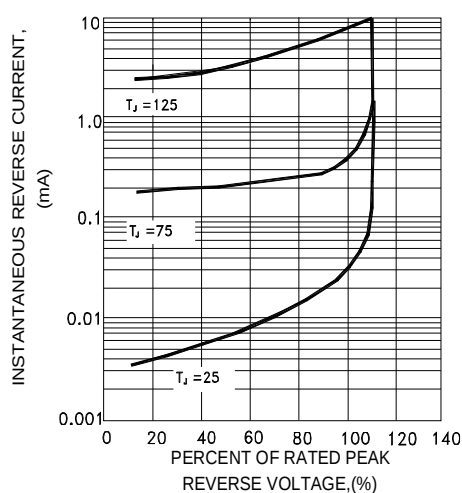


FIG.5-TYPICAL JUNCTION CAPACITANCE

