

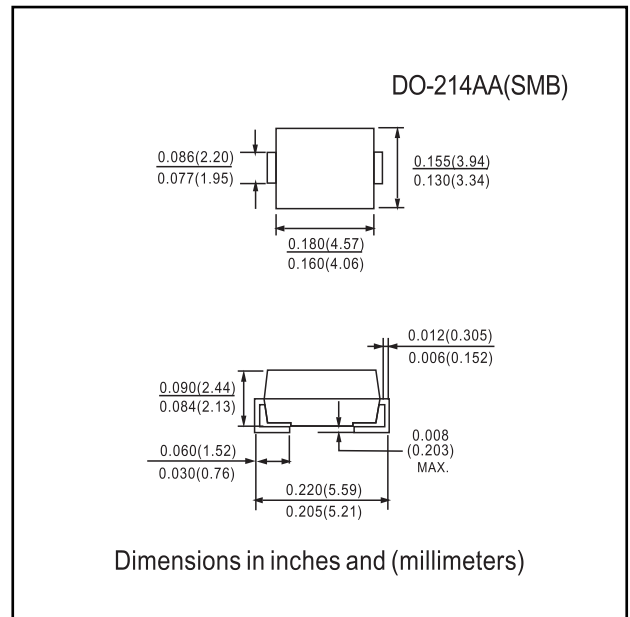


FEATURES

- 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
- Guarding 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: 0.003 ounce, 0.093 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	SSL22	SSL23	SSL24	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	80			A
Maximum Instantaneous Forward Voltage (Note 1) @ 2 A	$V_F$	0.41			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.4			mA
		50		60	
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	25			°C/W
	$R_{\theta JA}$	70			
Marking Code		SL22	SL23	SL24	
Operating Temperature Range	$T_J$	- 55 to + 125			°C
Storage Temperature Range	$T_{STG}$	- 55 to + 150			°C

Note 1: Pulse Test with PW=300u sec, 1% Duty Cycle

Note 2: Mount on Cu-Pad Size 10mm × 10mm on P.C.B.



RATINGS AND CHARACTERISTIC CURVES

SSL22 THRU SSL24

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

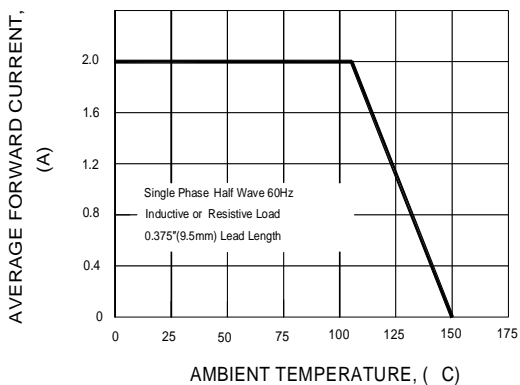


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

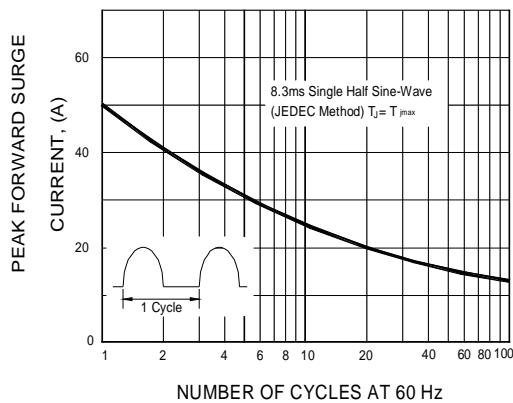


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

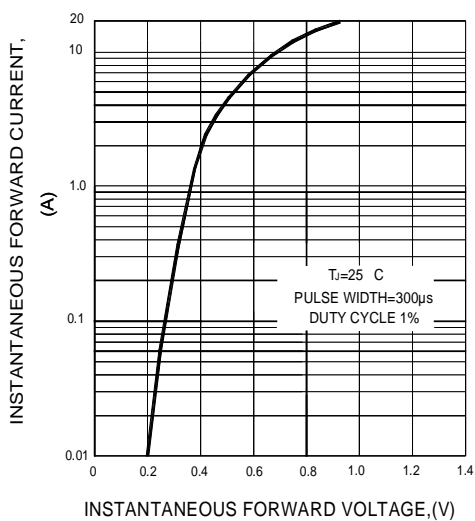


FIG.4-TYPICAL REVERSE CHARACTERISTICS

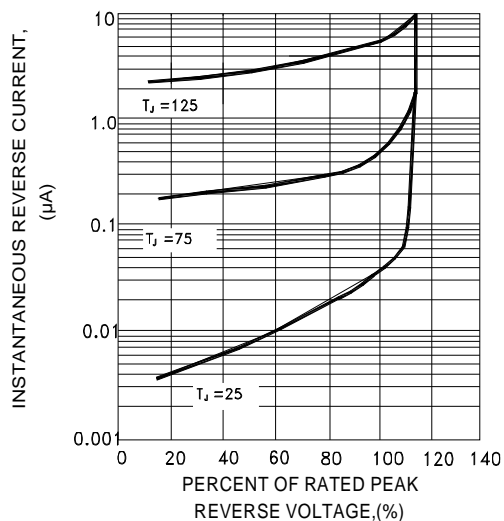


FIG.5-TYPICAL JUNCTION CAPACITANCE

