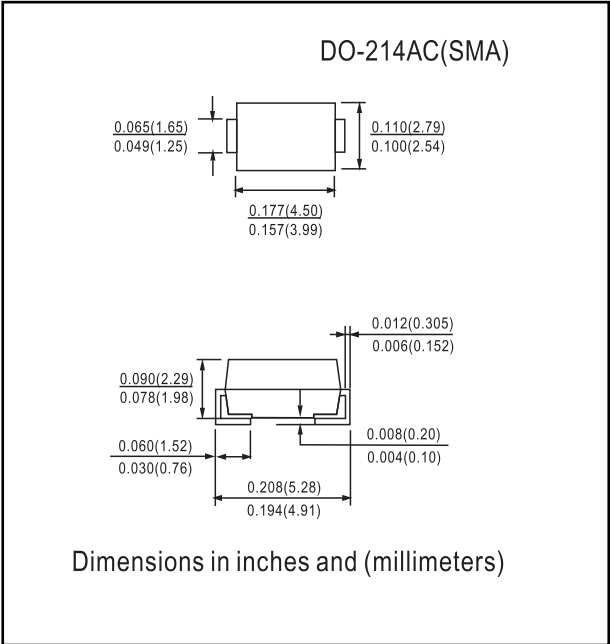




- FEATURES**
- ◆ Plastic package has Underwriters Laboratory Flammability classification 94V-0
 - ◆ For surface mount applications
 - ◆ Low profile package
 - ◆ Built-in strain relief
 - ◆ Metal silicon junction, majority carrier conduction
 - ◆ Low power loss, high efficiency
 - ◆ High current capability, low forward voltage drop
 - ◆ High surge capability
 - ◆ For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
 - ◆ Guardring for overvoltage protection
 - ◆ High temperature soldering guaranteed: 250°C/10 seconds on terminals



Mechanical Data

Case: JEDEC DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Weight: 0.002 ounce 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Resistive or inductive load.

	SYMBOLS	SL12	SL13	SL14	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at T_L (See Figure 1)	$I_{(AV)}$	1.0			Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30.0			Amps
Maximum Instantaneous Forward Voltage at 1.0A (Note 1)	V_F	0.38	0.38	0.40	Volts
Maximum DC Reverse Current $T_A=25$ °C (Note 1) At Rated DC Blocking Voltage $T_A=100$ °C	I_R	0.5 20.0			mA
Maximum Thermal Resistance (Note 2)	$R_{\theta KJL}$ $R_{\theta KJA}$	28 88			°C/W
Operating Junction Temperature Range	T_J	-50 to +125			°C
Storage Temperature Range	T_{STG}	-50 to +150			°C

NOTES:

1. Pulse Test with PW=300 ns sec, 1% Duty Cycle.
2. Mounted on P.C.Board with 5.0mm² (.013mm thick) copper pad areas.

