

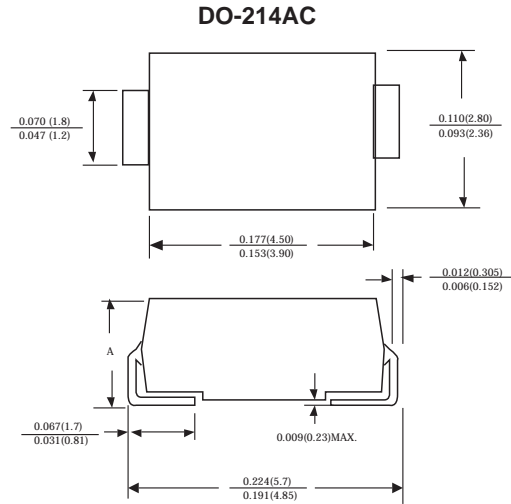
HIGH VOLTAGE RECTIFIER

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-214AC/SMA molded plastic body
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.003 ounce, 0.093 grams



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 current derate by 20%.

	SYMBOLS	SM525	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	2500	VOLTS
Maximum RMS voltage	V _{RMS}	1750	VOLTS
Maximum DC blocking voltage	V _{DC}	2500	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length (see fig.1)	I _(AV)	0.2	Amp
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 0.2 A	V _F	3.0	Volts
Maximum DC reverse current TA=25°C	I _R	5.0	uA
at rated DC blocking voltage TA=100°C		50	
Typical junction capacitance (NOTE 1)	C _J	15.0	pF
Typical thermal resistance (NOTE 2)	R _{qJA}	50.0	°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +175	°C

- Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

