



S1T THRU S1Y

HIGH VOLTAGE RECTIFIER

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

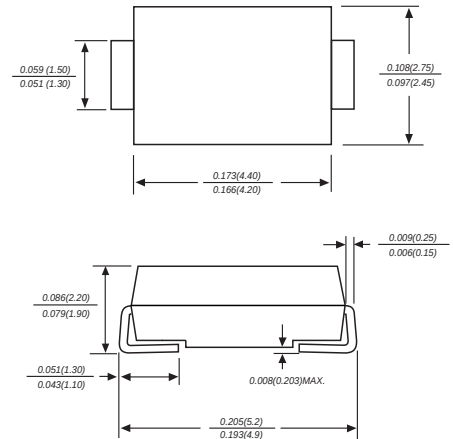
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight:0.003 ounce, 0.093 grams

DO-214AC/SMA



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 current derate by 20%.

	SYMBOLS	S1T	S1W	S1X	S1Y	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	1300	1600	1800	2000	VOLTS
Maximum RMS voltage	V_{RMS}	910	1120	1260	1400	VOLTS
Maximum DC blocking voltage	V_{DC}	1300	1600	1800	2000	VOLTS
Maximum average forward rectified current at $T_L=110^{\circ}C$	I_{AV}	1.0				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 1.0A	V_F	1.1				Volts
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=100^{\circ}C$	I_R	5.0 50.0				μA
Typical junction capacitance (NOTE 1)	C_J	15.0				pF
Typical thermal resistance (NOTE 2)	R_{qJA}	70.0				$^{\circ}C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150				$^{\circ}C$

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



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