

VTR-H Diode S1A THRU S1M

Surface Mount Ultrafast Rectifiers

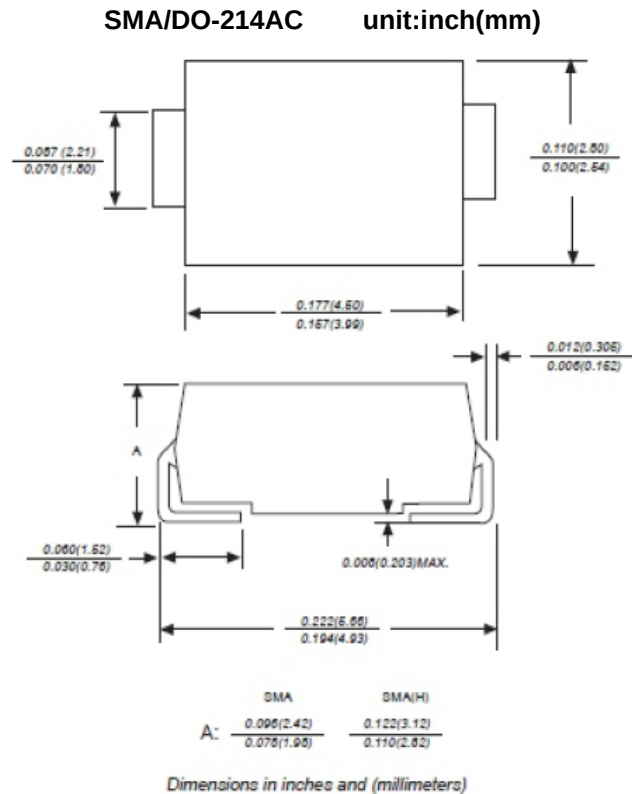
Reverse Voltage 50 to 1000V * Forward Current 1.0A

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 : 0.005 ounce 0.138 grams



Maximum Rating and Electrical Characteristics

Raings at 25°C ambient temperature unless otherwise specified

Single phase half-wave 60HZ resistive or inductive load ,for capacitive load current derate by 20%

Items	Symbols	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current at TL=110°	I (AV)	1.0							AMP
Peak forward surge current 8.3ms single * Half sine-wave superimposed on rated toad (JEDEC Method)	IFSM	30.0							AMPS
Maximum Instantaneous Forward Voltage at 1.0A	VF	1.1							VOLTS
Maximum DC Reverse Current TA=25°C at rated DC Blocking Voltage TA=100°C	IR	5.0						50.0	μA
Typical Junction Capacitance (Measured at 1 MHZ and applied reverse voltage of 4.0V D.C)	CJ	15.0							pF
Typical Thermal Resistance (P.C.B mounted with 0.2x0.2 " (5.0x5.0mm) copper pad areas)	RqJA	75							°C/W
Operating Junction and Storage Temperature Range	TJ, TSTG	-65 to +175							°C