

HITANO ENTERPRISE CORP.

RS1A THRU RS1M

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Opened junction

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame

retardant

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

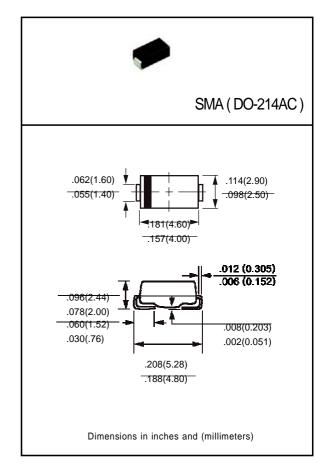
* Polarity: As marked* Mounting position: Any* Weight: 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive

load.

For capacitive load, derate current by 20%.



		SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1	UNITS
Maximum Recurrent 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 TA = 55°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30						Amps	
Maximum Forward Voltage at 1.0A DC		VF	1.3						Volts	
Maximum DC Reverse Current at	@TA = 25°C	l-	5.0							uAmps
Rated DC Blocking Voltage	@TA = 125°C	lR IR	150							
Maximum Reverse Recovery Time (Note 3)		trr		150			250	500		nSec
Maximum Thermal Resistance (Note 2)		RθJL	30						°C/W	
Typical Junction Capacitance (Note 1)		Cı	15						pF	
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 175						٥C	

- NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC
 - 2. Thermal Resistance (Junction to Ambient), .24in² (6.0mm²) copper pads to each terminal.
 - 3. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

RATING AND CHARACTERISTIC CURVES (RS1A THRU RS1M)

