

HITANO ENTERPRISE CORP.

S2A THRU S2M

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED RECTIFIER VOLTAGE RANGE – 50 to 1000 Volts CURRENT – 2.0 Amperes

FEATURES

- *Ideal for surface mounted applications
- *Low leakage current
- *Glass passivated

MECHANICAL DATA

*Case: Molded plastic

*Epoxy: UL 94V -0 rate flame retardant *Terminals: Solder plated, solderable per MiL-STD-750,Method 2026

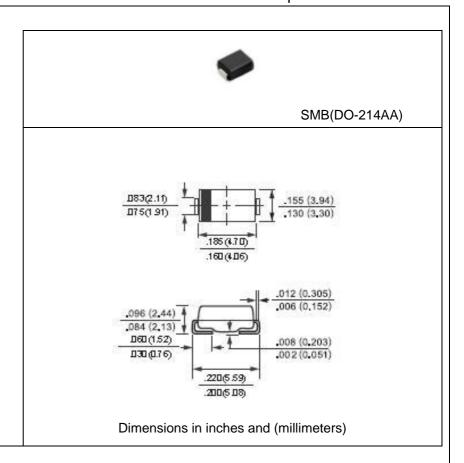
*Polarity: As marked *Mounting position: Any *Weight: 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $\!\!\!\!\!\!\!^{\circ}_{\circ}$ ambient temperature unless otherwise specified

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%



		SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
$\begin{array}{llllllllllllllllllllllllllllllllllll$		lo	2.0							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	60							Amps
Maximum Instantaneous Forward Voltage at 2.0ADC		V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _{A=25℃}	· I _R	5.0							- uAmps
	@ T _{A=100℃}		100							
Maximum Reverse Recovery Time (Note 3)		trr	2.5							uSec
Typical Thermaesistance (Note 2)		Reja	20							сw
Typical Junction Capacitance (Note 1)		CJ	30							pF
Operating and Storage Temperature Range		$T_{J,TSTG}$	-65 to +175							$^{\circ}\!\mathbb{C}$

NOTES: 1. Measured at 1 MHZ and applied reverse voltage of 4.0 volts

- 2. Thermal Resistance (Junction to Ambient), 0.2X0.2in², (5X5mm²) copper pads to each terminal.
- 3. Test Conditions: IF = 0.5A, IR=1.0A, IRR =0.25A.

RATING AND CHARACTERISTIC CURVES (S2A THRU S2M)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

(V) 2.5

1.5

| Single Phase Half Wave 50Hz Resistive or Inductive Losd O 25 50 75 100 125 150 175 AMBIENT TEMPERATURE, (°C')

