

# HITANO ENTERPRISE CORP.

#### SM5391 THRU SM5399

#### TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts **CURRENT - 1.5 Amperes**

# **FEATURES**

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

# MECHANICAL DATA

- \* Case: Molded plastic \* Epoxy: UL 94V-0 rate flame retardant
- \* Mounting position: Any
- \* Weight: 0.12 gram

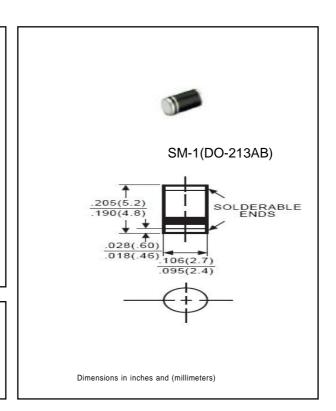
  \* Terminals: Solder plated solderable per

  MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end

# 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, derate current by 20%.



		SYMBOL	SM5391	SM5392	SM5393	SM5395	SM5397	SM5398	SM5399	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 TA = 75°C		lo	1.5							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50							Amps
Maximum Forward Voltage at 1.5A DC		VF	1.4							Volts
Maximum DC Reverse Current at	@Ta = 25°C		5.0							μAmps
Rated DC Blocking Voltage	@Ta = 125°C	lr	100							
Typical Thermal Resistance (Note 2)		Rejc	60							°C/W
Typical Junction Capacitance (Note 1)		CJ	30							pF
Operating and Storage Temperature Range		ТJ, Tsтg	-65 to +150							°c

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

2. Thermal resistance (Junction to Ambient), .24in<sup>2</sup> (6.0mm<sup>2</sup>) coppeer pads to each terminal

#### RATING AND CHARACTERISTIC CURVES (SM5391 THRU SM5399)

