



SILICON RECTIFIER VOLAGE 200 Volts CURRENT 15 Ampere

FEATURES

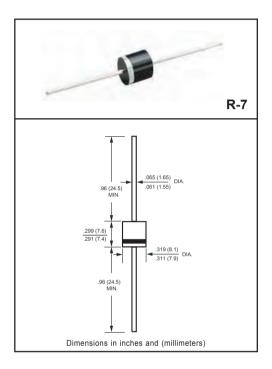
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge current capability
- * Ideal for solar panel PV application such as By-Pass diode

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.08 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SPA1503-T-S-A01	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	200	Volts
Maximum RMS Voltage	VRMS	140	Volts
Maximum DC Blocking Voltage	VDC	200	Volts
Maximum DC Forward Current @TL=125°C(Note 2)	10	15	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	400	Amps
Typical Current Squared Time	I ² T	663.7	A ² S
Typical Junction Capacitance (Note)	Cı	125	pF
Typical Thermal Resistance	RθJC	2.9	°C/W
	RθJL	1.4	C/ W
Operating Temperature Range	TJ	175(Tj≤200°C in Bypass Mode)	۰c
Storage Temperature Range	Tstg	-55 to +175	۰C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SPA1503-T-S-A01	UNITS
Maximum Instantaneous Forward Voltage at 15A DC		VF	1.0	Volts
Maximum DC Reverse Current	@Ta = 25°C		10	uAmps
at Rated DC Blocking Voltage	@TA = 100°C	l _R	100	uAllips
Maximum Full Load Reverse Current Average Full Cycle .375" (9.5mm) lead length at TL = 75°C		IK	50	uAmps

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

- 2. Heat-sink mounted 10mm max from body
- 3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

RATING AND CHARACTERISTIC CURVES (SPA1503-T-S-A01)

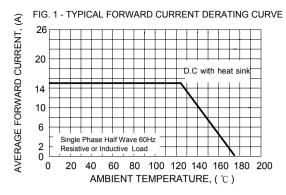
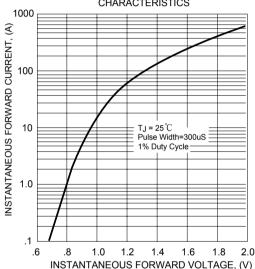


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



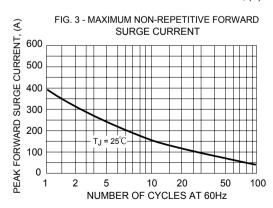


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

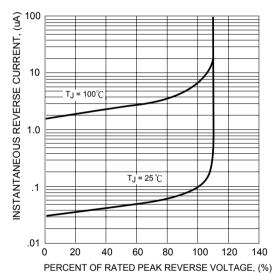
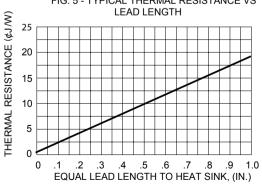
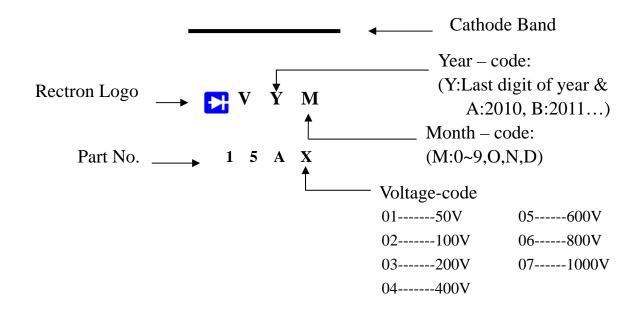


FIG. 5 - TYPICAL THERMAL RESISTANCE VS





Marking Description



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