

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK82 THRU SK820

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER DIODE VOLTAGE RANGE - 20 to 200 Volts CURRENT - 8.0 Amperes

FEATURES

- * Ideal for surface mounted applications
- * Low profile package
- * Built-in strain relief
- * Low leakage current
- * High surge capacity
- * Glass passivated junction

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant

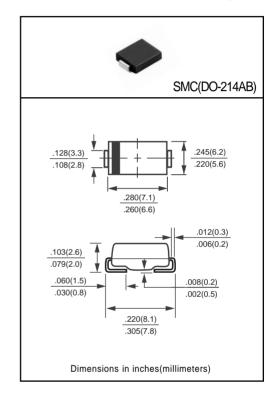
* Terminals: Solder plated, solderable per MIL-STD-750. Method 2026

* Polarity: As marked* Mounting position: Any* Weight: 0.24 grams Approx.

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%.

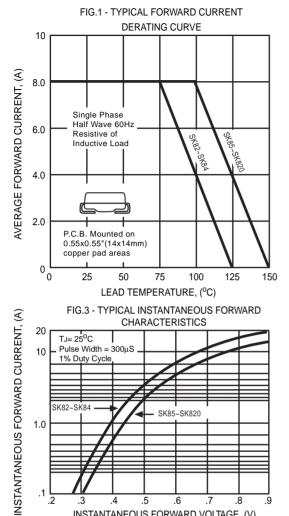


		SYMBOL	SK82	SK83	SK84	SK85	SK86	SK88	SK810	SK815	SK820	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at TC=75°C		Ю	8.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150								Amps	
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	0.55		0.	70	0.85		0.95		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	lR	1.0									mAmps
	@Ta = 100°C		20									
Typical Junction Capacitance (Note 1)		Cı	380									pF
Typical Thermal Resistance (Note2)		RθJA	55									°C/W
Storage Operating Temperature Range		ТЈ, Тѕтс	-55 to +125									°C

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

2. Mounted on PC Board with 14mm²(0.013mm thick) copper pad areas.

RATING AND CHARACTERISTIC CURVES (SK82 THRU SK820)





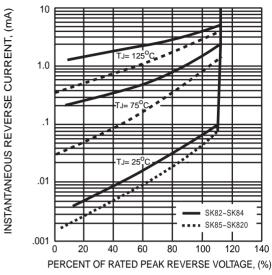


FIG.3 - TYPICAL INSTANTANEOUS FORWARD **CHARACTERISTICS**

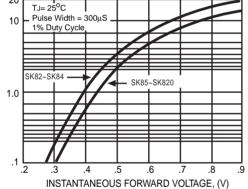


FIG.4 - TYPICAL JUNCTION CAPACITANCE

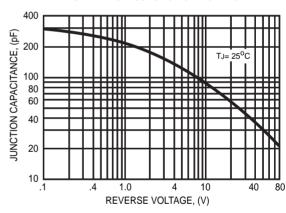


FIG.5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PEAK FORWARD SURGE CURRENT, (A) 210 180 At rated TL 8.3ms Single Half Sine-Wave 150 (JEDEC Method) 120 90 60 30 10 2 5 10 20 50 100 NUMBER OF CYCLE AT 60Hz

