

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK52 THRU SK510

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER DIODE VOLTAGE RANGE - 20 to 100 Volts

CURRENT - 5.0 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

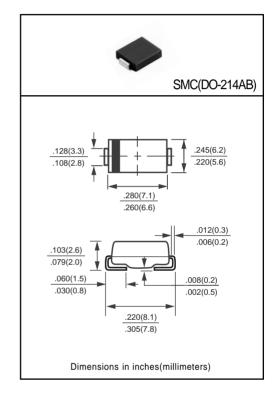
* Epoxy: UL 94V-0 rate flame retardant

* 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

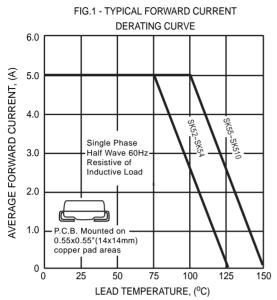
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



		SYMBOL	SK52	SK53	SK54	SK55	SK56	SK58	SK510	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at TC=75°C		Ю	5.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100							Amps
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	0.55		0.75		0.85		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@Ta = 25°C		2.0							mAmps
	@Ta = 100°C	lr	20							
Typical Thermal Resistance (Note1)		RθJA	55							°C/W
Storage Operating Temperature Range		TJ, TSTG	-55 to +125							°C

Note: 1. Mounted on PC Board with 14mm² (0.013mm thick) copper pad areas.

RATING AND CHARACTERISTIC CURVES (SK52 THRU SK510)





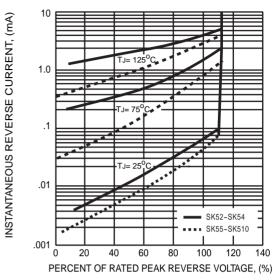
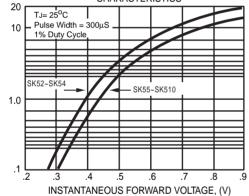


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD CURRENT, (A)

FIG.4 - TYPICAL JUNCTION CAPACITANCE

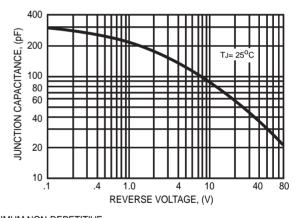
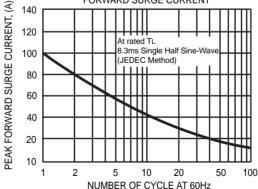


FIG.5 - MAXIMUM NON-REPETITIVE
FORWARD SURGE CURRENT





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