



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

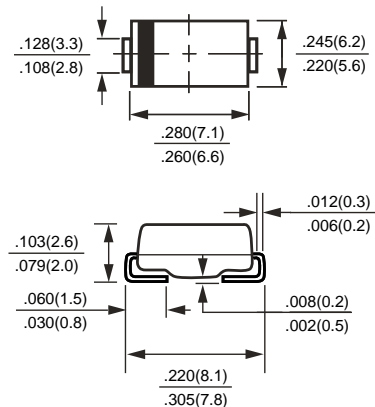
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.24 grams Approx.

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%.



SMC(DO-214AB)



Dimensions in inches(millimeters)

		SYMBOL	SK52	SK53	SK54	SK55	SK56	SK58	SK510	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at TC=75°C		I _O	5.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	10							Amps
Maximum Instantaneous Forward Voltage at 5.0A DC		V _F	0.55			0.75		0.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	I _R	2.0							mAmps
	@ TA = 100°C		50							
Typical Thermal Resistance (Note1)		R θJA	55							°C/W
Storage Operating Temperature Range		T _J , T _{STG}	-55 to +125							°C

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