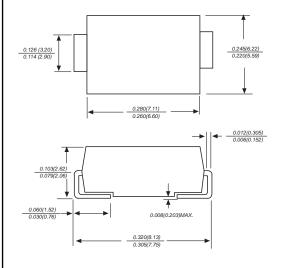


# **SK52 THRU SK5200**

#### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 5.0 Amperes

#### DO-214AB/SMC



Dimensions in inches and (millimeters)

## **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

## **MECHANICAL DATA**

Case: JEDEC DO-214AB molded plastic body Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

**Mounting Position**: Any

Weight: 0.007 ounce, 0.25grams

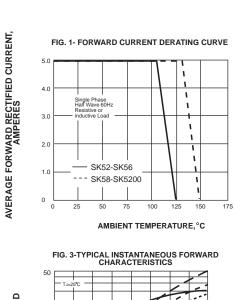
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

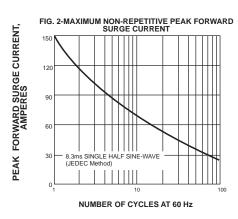
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

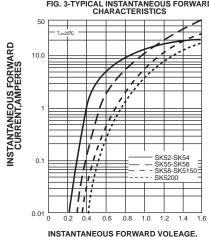
MDD Catalog Number	SYMBOLS	SK52	SK53	SK54	SK55	SK56	SK58	SK510	SK5150	SK5200	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	150	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current	I <sub>(AV)</sub> 5.0								Amps		
at TL(see fig.1)	I(AV)	5.0									
Peak forward surge current											
8.3ms single half sine-wave superimposed on	IFSM	150.0									Amps
rated load (JEDEC Method)											
Maximum instantaneous forward voltage at 5.0A	VF	0.55 0.70			70	0.85			0.95	Volts	
Maximum DC reverse current Ta=25°C	0.5									2	mA
at rated DC blocking voltage Ta=100℃	lr	20					10		2.	0	111/
Typical junction capacitance (NOTE 1)	Cı	200									pF
Typical thermal resistance (NOTE 2)	Reja	50.0									°C/W
Operating junction temperature range	TJ,		-50 to +125 -50 to +15					+150		°C	
Storage temperature range	Тѕтс	-50 to +150									°C

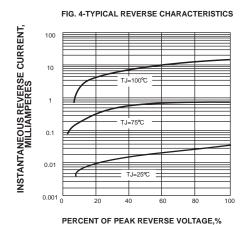
Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2 "(5.0x5.0mm) copper pad areas

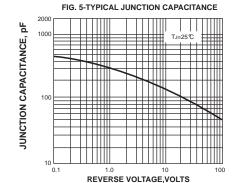
## **RATINGS AND CHARACTERISTIC CURVES SK52 THRU SK5200**



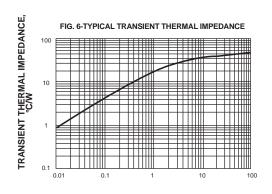








VOLTS



t,PULSE DURATION,sec.