

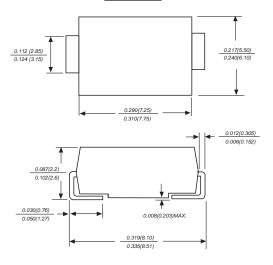
SK52 THRU SK520

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

SMC

DO-214AB



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- 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: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.217 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

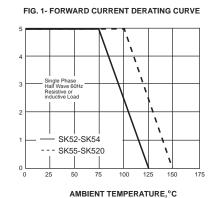
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

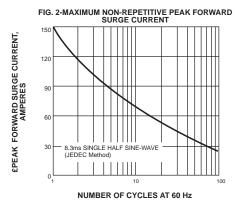
	SYMBOLS	SK32	SK53	SK54	SK55	SK56	SK38	SK510	SK515	SK520	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at TL(see fig.1)	l(AV)	v) 5.0									Amps
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	0.45 0.55		0.70		0.85			Volts		
Maximum DC reverse current Ta=25℃		0.5									
at rated DC blocking voltage Ta=100°C	l R	20			10					– mA	
Typical junction capacitance (NOTE 1)	Сı	800 500						pF			
Typical thermal resistance (NOTE 2)	RqJA	55.0								°C/W	
Operating junction temperature range	TJ,	-65 to +125 -65 to +150						°C			
Storage temperature range	Тѕтс	-65 to +150								°C	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.6x0.6" (16x16mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SK52 THRU SK520







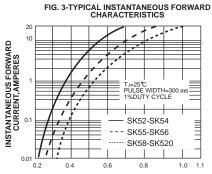
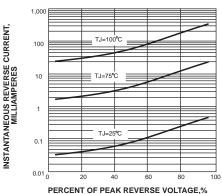
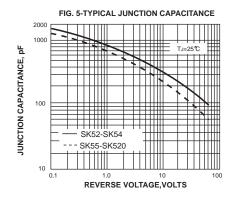
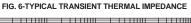


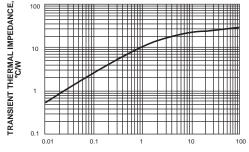
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLEAGE, VOLTS







t,PULSE DURATION,sec.