

SK5150 - SK5200

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE RANGE: 150 - 200V CURRENT: 5.0 A

Features

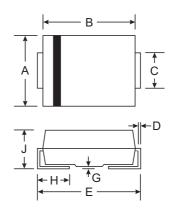
- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)







SMC/DO-214AB				
Dim	Min Max			
Α	5.59	6.22		
В	6.60	7.11		
С	2.75	3.18		
D	0.15	0.31		
E	7.75	8.13		
G	0.10	0.20		
Н	0.76	1.52		
J	2.00	2.62		
All Dimensions in mm				

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

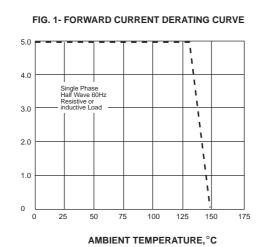
Characteristic	Symbol	SK5150	SK5200	Unit
Maximum repetitive peak reverse voltage	Vrrm	150	200	Volts
Maximum RMS voltage	VRMS	105	150	Volts
Maximum DC blocking voltage	VDC	150	200	Volts
Maximum average forward rectified current	I(AV) 5.0			Amps
at TL(see fig.1)	I(AV)	3.0		
Peak forward surge current				
8.3ms single half sine-wave superimposed on	IFSM	150.0		Amps
rated load (JEDEC Method)				
Maximum instantaneous forward voltage at 5.0A	VF	0.85	0.95	Volts
Maximum DC reverse current Ta=25°C		0.:	2	mA
at rated DC blocking voltage Ta=100℃	l R	2.0		
Typical junction capacitance (NOTE 1)	Сл	200		pF
Typical thermal resistance (NOTE 2)	Rθја	50.0		°C/W
Operating junction temperature range	TJ,	-50 to +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

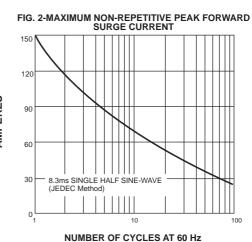


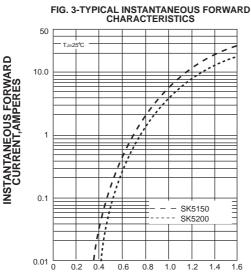
RATINGS AND CHARACTERISTIC CURVES SK5150 THRU SK5200

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

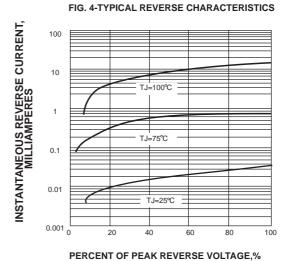




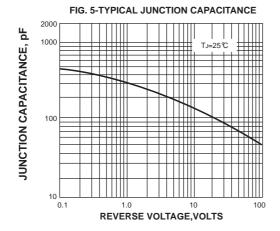


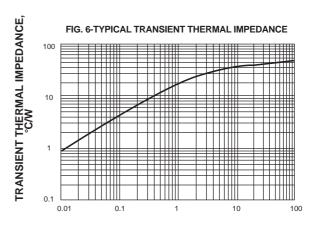


INSTANTANEOUS FORWARD VOLEAGE,



1.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6





t,PULSE DURATION,sec.