

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE RANGE: 20 - 100V CURRENT: 5.0 A

Features

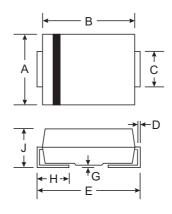
- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

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%.

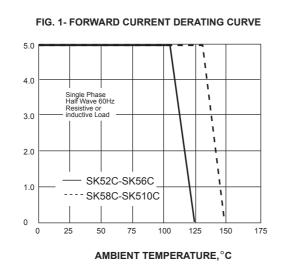
Characteristic	Symbol	SK52C	SK53C	SK54C	SK55C	SK56C	SK58C	SK510C	Unit
Maximum repetitive peak reverse voltage		20	30	40	50	60	80	100	V
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	V
Maximum DC blocking voltage		20	30	40	50	60	80	100	V
Maximum average forward rectified current	I _(AV)	5.0							٨
at TL(see fig.1)	I(AV)								Α
Peak forward surge current		IFSM 150.0							_
8.3ms single half sine-wave superimposed on	IFSM							A	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 5.0A	VF	0.55		0.70		0.85		V	
Maximum DC reverse current Ta=25°C		0.5						mA	
at rated DC blocking voltage Ta=100℃	l _R	20 10)	IIIA
Typical junction capacitance (NOTE 1)	Cı	200						pF	
Typical thermal resistance (NOTE 2)	Reja	50.0						°C/W	
Operating junction temperature range	TJ,	-65 to +125 -65 to +150					+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 0.2x0.2"(5.0x5.0mm) copper pad areas

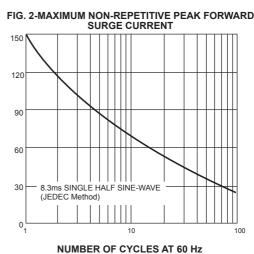


RATINGS AND CHARACTERISTIC CURVES SK52C THRU SK510C

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES







INSTANTANEOUS FORWARD CURRENT, AMPERES

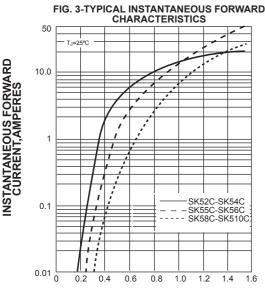
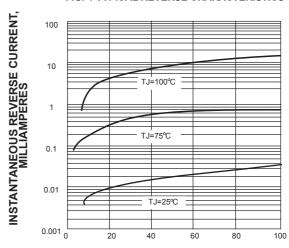
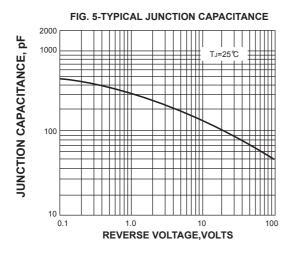


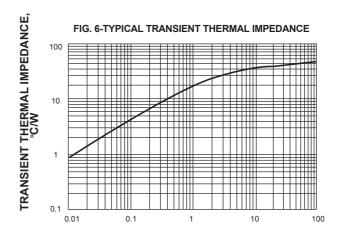
FIG. 4-TYPICAL REVERSE CHARACTERISTICS





PERCENT OF PEAK REVERSE VOLTAGE,%





t,PULSE DURATION,sec.