

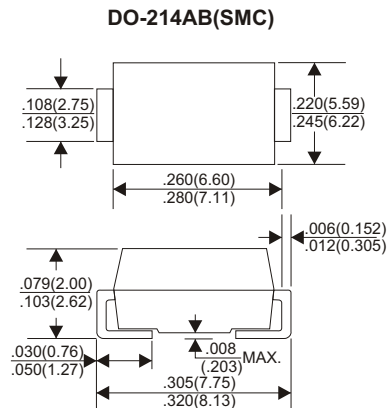
3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Features:

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

Mechanical Data:

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.093 grams
- * Both normal and Pb free product are available:
- * Normal: 80~95%Sn, 5~20%Pb
- * Pb free: 99 Sn above can meet Rohs environment substance directive request



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SK	SK	SK	SK	SK	SK	SK	UNITS
	32C	34C	36C	38C	310C	315C	320C	
Marking Code	SK32 SS32	SK34 SS34	SK36 SS36	SK38 SS38	SK310 SS310	SK315 SS315	SK320 SS320	-
Maximum Recurrent Peak Reverse Voltage	20	40	60	80	100	150	200	V
Maximum RMS Voltage	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current See Fig. 1	3.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	105							A
Maximum Instantaneous Forward Voltage at 3.0A	0.55	0.70	0.85				V	
Maximum DC Reverse Current Ta=25°C	50							uA
at Rated DC Blocking Voltage Ta=100°C	2.5							mA
Typical Junction Capacitance (Note1)	250							pF
Typical Thermal Resistance R JA (Note 2)	10							°C/W
Operating Temperature Range Tj	-65 — +150							°C
Storage Temperature Range TSTG	-65 — +150							°C

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (SK32C THRU SK320C)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

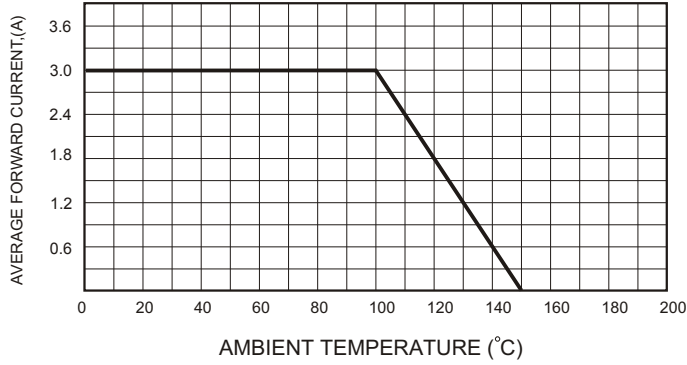


FIG.2-TYPICAL FORWARD CHARACTERISTICS

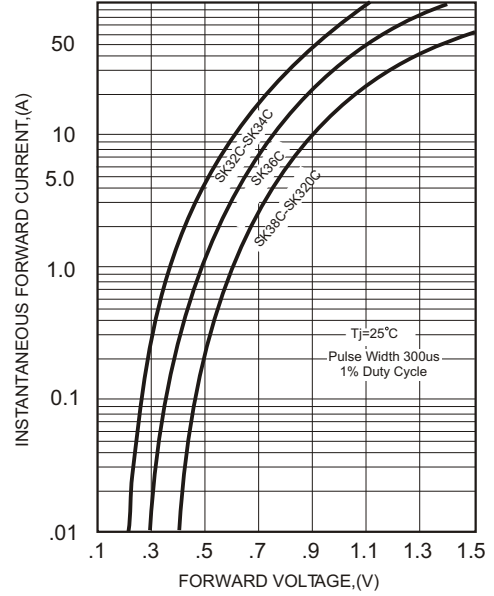


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

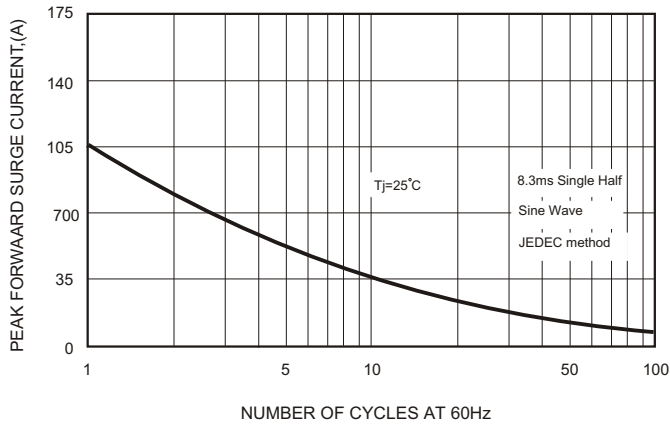


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

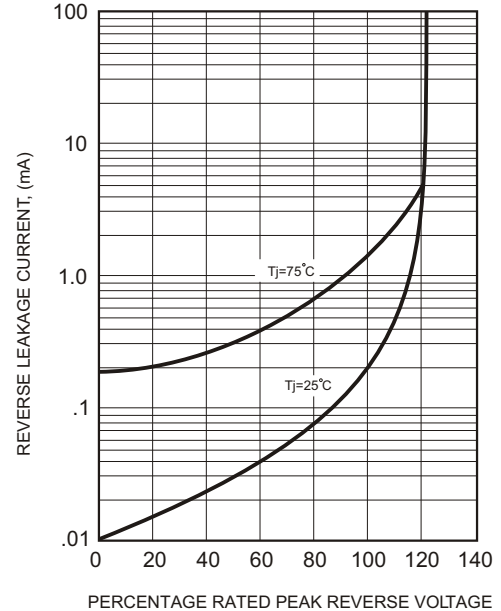


FIG.4-TYPICAL JUNCTION CAPACITANCE

