

Pb Free Plating Product



SK34B thru SK320B

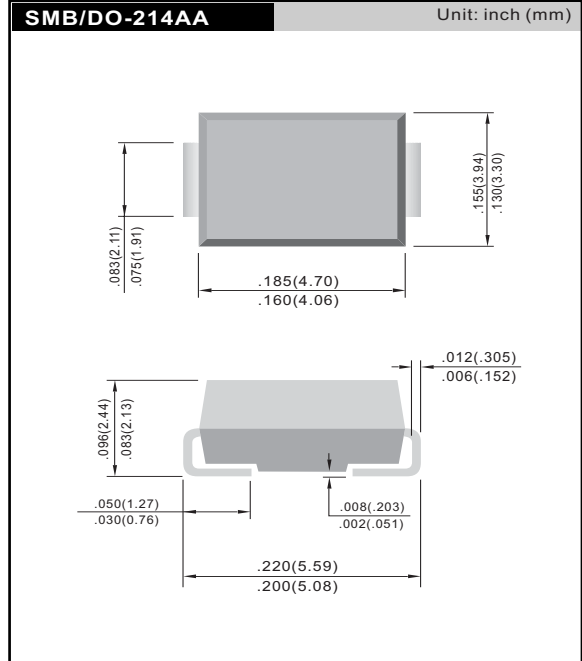
3.0 Amp. Surface Mount Schottky Barrier Rectifiers

Features

- ★ Low forward voltage drop
- ★ High current capability
- ★ High reliability
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic SMB/DO-214AA
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-750 method 2026
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any
- ★ Weight: 0.093 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYBMOL	SK34B	SK36B	SK38B	SK310B	SK320B	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	60	80	100	200	V
Maximum RMS Voltage	V _{RMS}	28	42	56	70	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	200	V
Maximum Average Forward Rectified Current T _L =100°C	I _(AV)	3.0					A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80					A
Maximum Instantaneous Forward Voltage @ 3.0 A	V _F	0.5	0.7	0.85	0.90		V
Maximum DC Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =100°C	I _R	0.5 10					mA
Typical junction Capacitance (Note 1)	C _J	200					pF
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +125 / -55 to +150					°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATINGS AND CHARACTERISTIC CURVES SK34B THRU SK320B

FIG.1 - FORWARD CURRENT DERATING CURVE

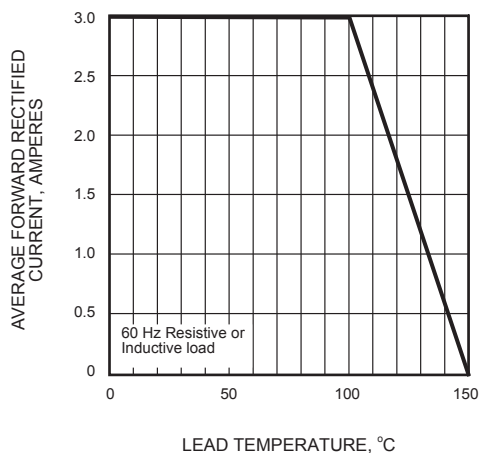


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

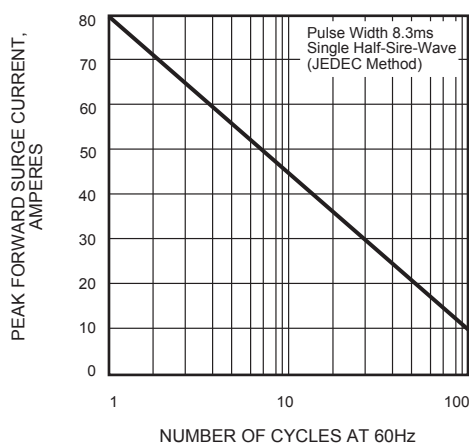


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

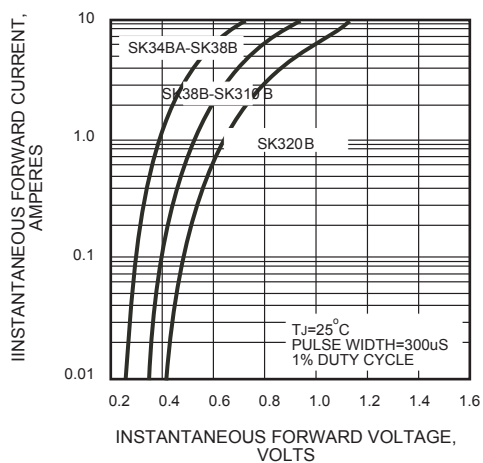


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

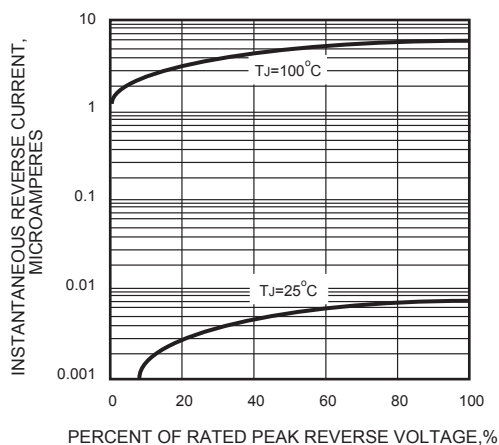


FIG.5 - TYPICAL JUNCTION CAPACITANCE

