Elektronische Bauelemente

SK12BL ~ SK14BL

VOLTAGE 20V ~ 40V

Low V_F & Low Ir Types

1.0AMP Surface Mount Schottky Barrier Rectifiers

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free



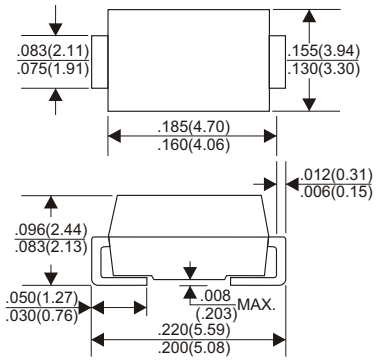
FEATURES

* Ideal for surface mount applications
* Easy pick and place
* Built-in strain relief
* Super low forward voltage drop & Low Ir

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Metallurgically bonded construction
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.102 grams

DO-214AA(SMB)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SK12BL	SK14BL	UNITS
Maximum Recurrent Peak Reverse Voltage	20	40	V
Maximum RMS Voltage	20	40	V
Maximum DC Blocking Voltage	20	40	V
Maximum Average Forward Rectified Current	1		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	80		A
Maximum Instantaneous Forward Voltage at 1.0A	0.41	0.43	V
Maximum DC Reverse Current Ta=25℃	0.1		mA
at Rated DC Blocking Voltage Ta=80℃	5		mA
Thermal Resistance, Junction to Ambient * $R\theta_{JA}$	75		℃/W
Operating Temperature Range T_J	-25 ~ +125		℃
Storage Temperature Range T_{STG}	-50 ~ +150		℃

*Device mounted on FR-4 PCB 0.013 mm.

RATING AND CHARACTERISTIC CURVES (SK12BL THRU SK14BL)

FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

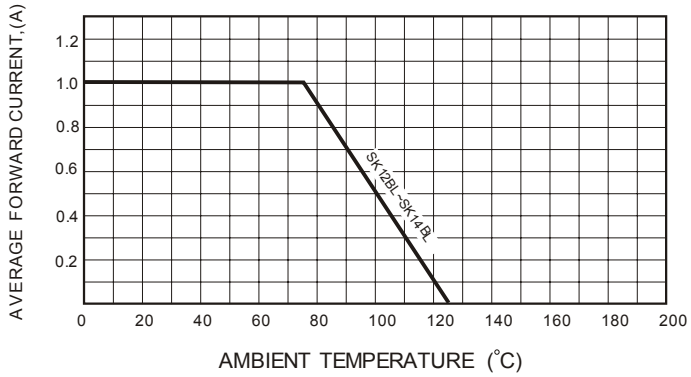


FIG.2 TYPICAL FORWARD CHARACTERISTICS

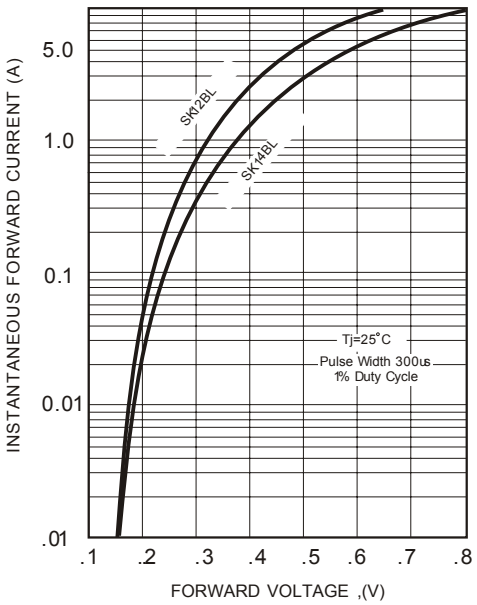


FIG .3-TYPICAL JUNCTION CAPACITANCE

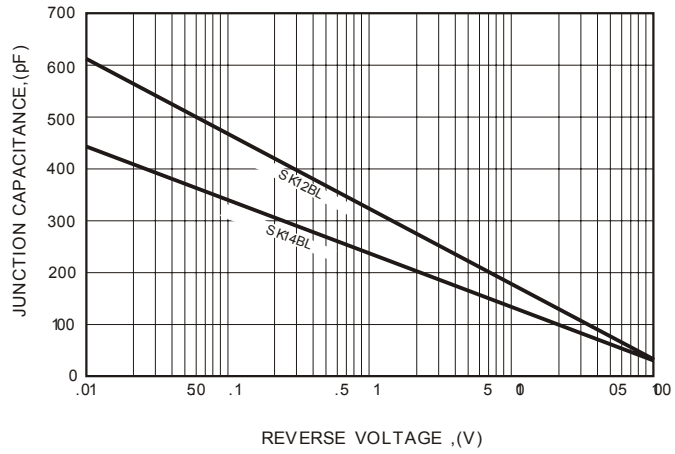


FIG .4 - TYPICAL REVERSE CHARACTERISTICS

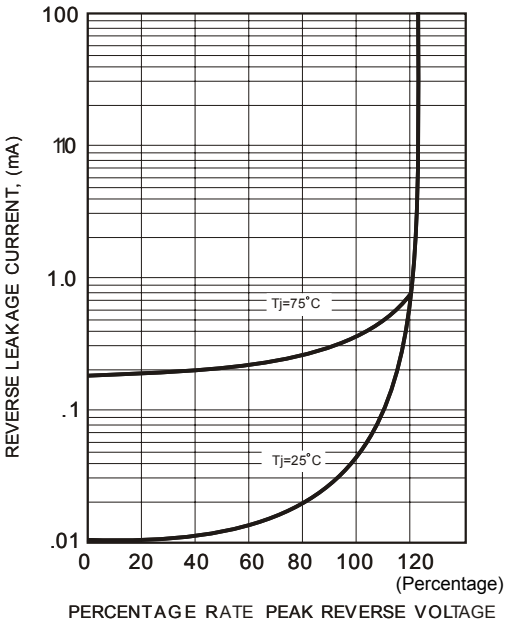


FIG .5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

