GOODWORK

SS315 THRU SS320

3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



VOLTAGE RANGE
150 to 200 Volts
CURRENT
3.0 Amperes

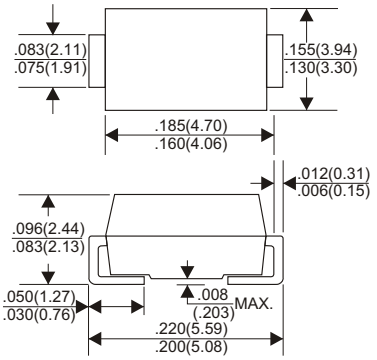
FEATURES

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

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: 0.093 grams

DO-214AA(SMB)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SS315	SS320	UNITS
Maximum Recurrent Peak Reverse Voltage	150	200	V
Maximum RMS Voltage	105	140	V
Maximum DC Blocking Voltage	150	200	V
Maximum Average Forward Rectified Current at T_L=100°C	3.0		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 3.0A	0.92		V
Maximum DC Reverse Current Ta=25°C	0.05		mA
at Rated DC Blocking Voltage Ta=100°C	10		mA
Typical Junction Capacitance (Note1)	250		PF
Typical Thermal Resistance RθJL (Note 2)	10		°C/W
Operating Temperature Range T_J	-65 — +150		°C
Storage Temperature Range T_{STG}	-65 — +150		°C

NOTES:

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

2. Thermal Resistance Junction to Lead Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (SS315 THRU SS320)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

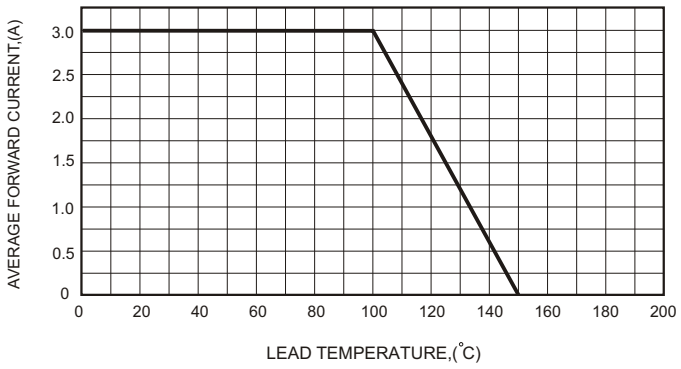


FIG.2-TYPICAL FORWARD CHARACTERISTICS

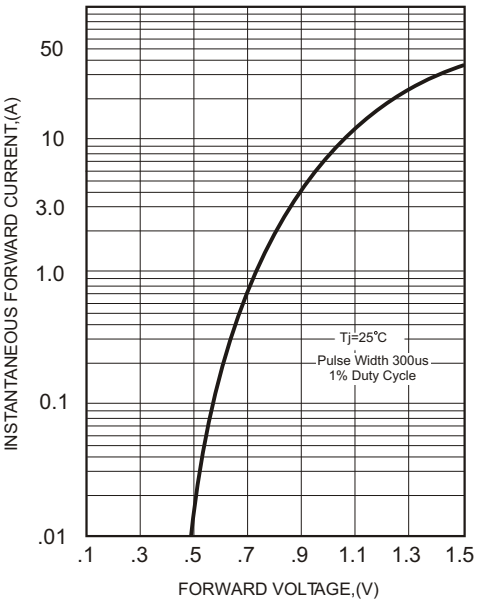


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

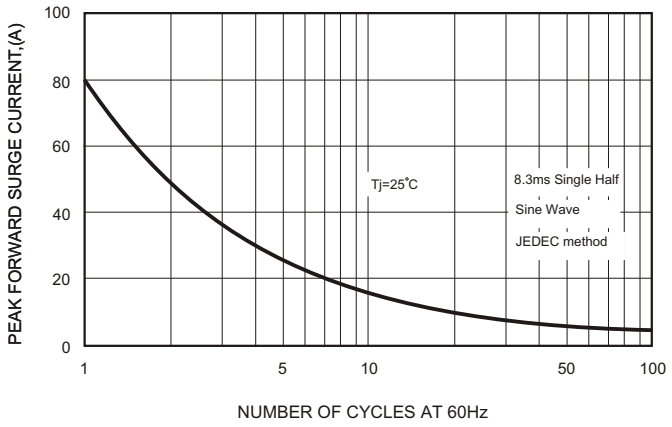


FIG.4-TYPICAL JUNCTION CAPACITANCE

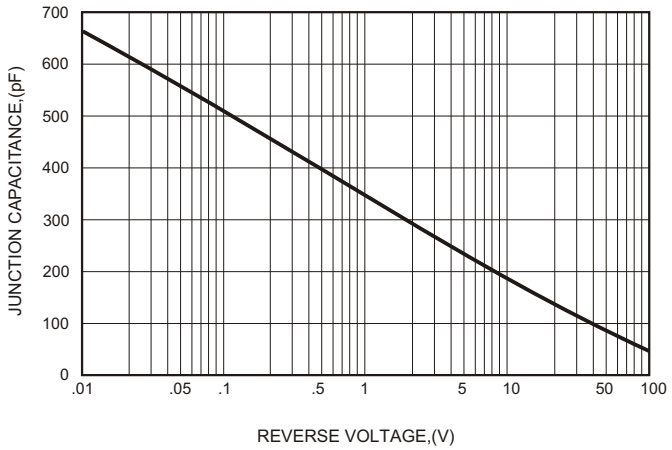
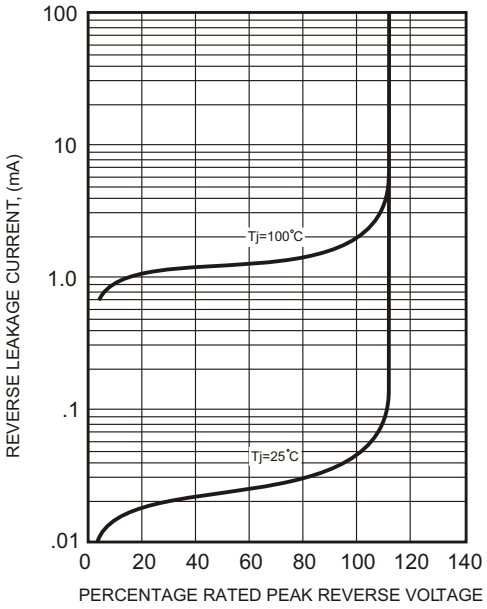


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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GK:

MBRF30200CT SS1060 MM5Z5V6 600R65 K16 MB14S ES05D1MC10 MBRD1060 MM1Z4V7B ES1236D2HA23 MB16F SS10100 1N5399 1SMA4740A DSK110 ES3.3D1HA03 F7 MB210F SR560L ES12D1HA03 K34 MBRD3045 PESD3V3L1BA SI2301S BZT52C22 MM1Z6V2B US1D US5M 4N65F DMG1013T