GOODWORK

SS52 THRU SS510

5.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
20 to 100 Volts
CURRENT
5.0 Ampere

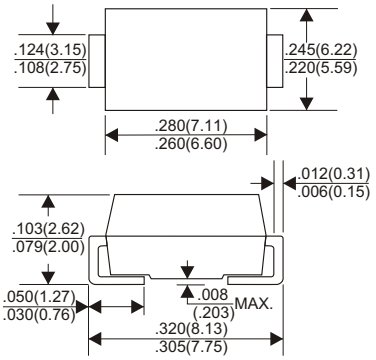
FEATURES

* 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: 0.21 grams

DO-214AB(SMC)



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	SS52	SS53	SS54	SS55	SS56	SS58	SS59	SS510	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current at T_L=90℃	5.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150								A
Maximum Instantaneous Forward Voltage at 5.0A	0.55			0.70		0.85			V
Maximum DC Reverse Current Ta=25℃	0.2								mA
at Rated DC Blocking Voltage Ta=100℃	20								mA
Typical Junction Capacitance (Note1)	300								pF
Typical Thermal Resistance R JL (Note 2)	10								℃/W
Operating Temperature Range T_J	-65 —+125			-65 —+150					℃
Storage Temperature Range T_{STG}	-65 — +150								℃

NOTES:

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

2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES (SS52 THRU SS510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

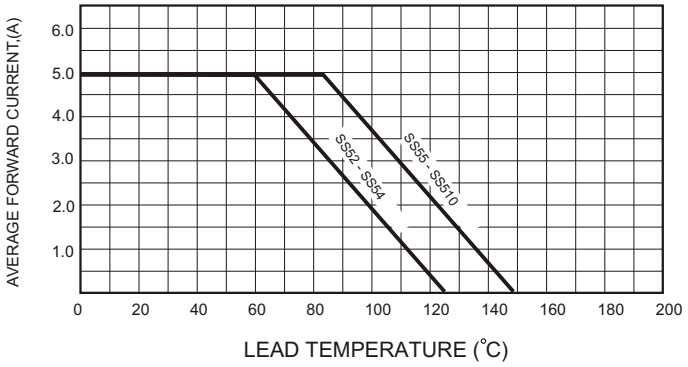


FIG.2-TYPICAL FORWARD CHARACTERISTICS

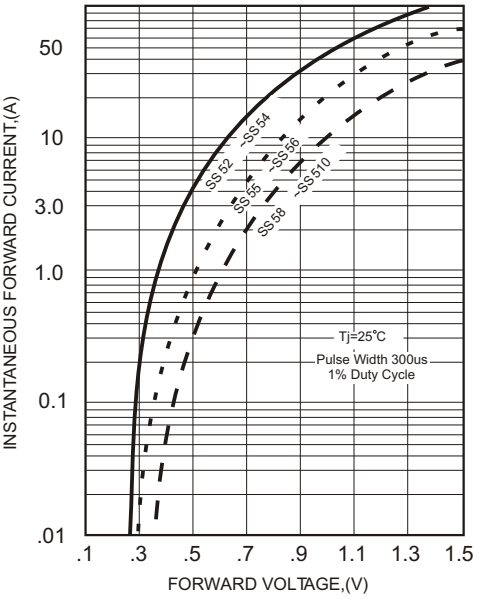


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

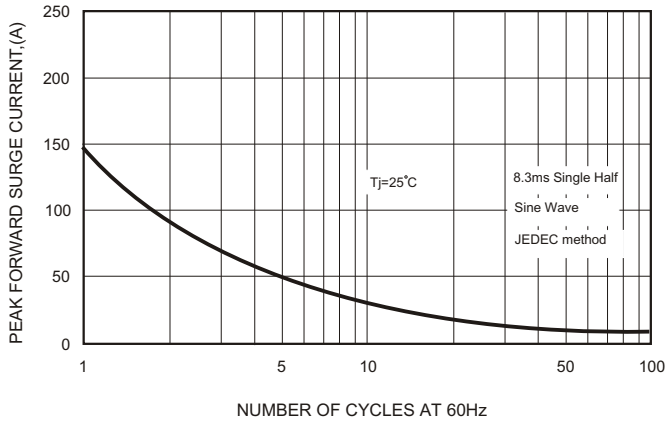


FIG.4-TYPICAL JUNCTION CAPACITANCE

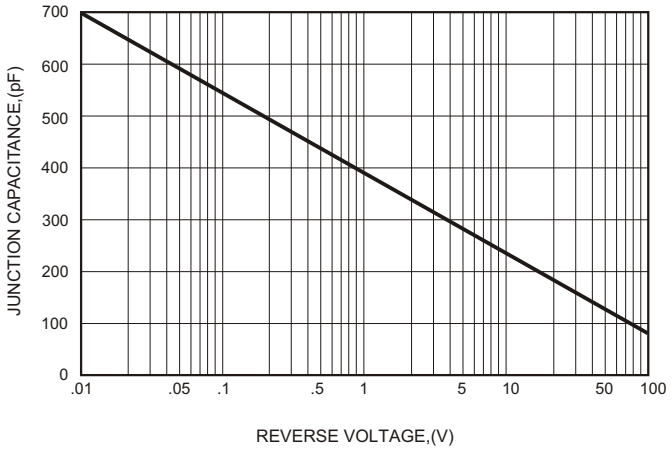
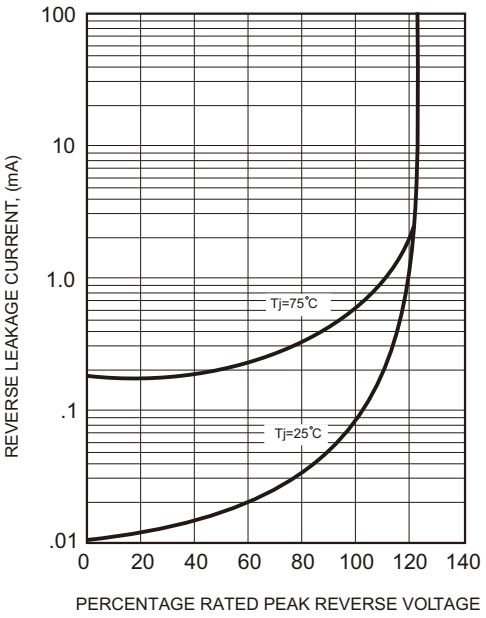


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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GK:

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