Elektronische Bauelemente

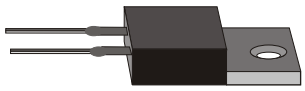
SS3020 THRU SS30100

VOLTAGE 20V ~ 100V

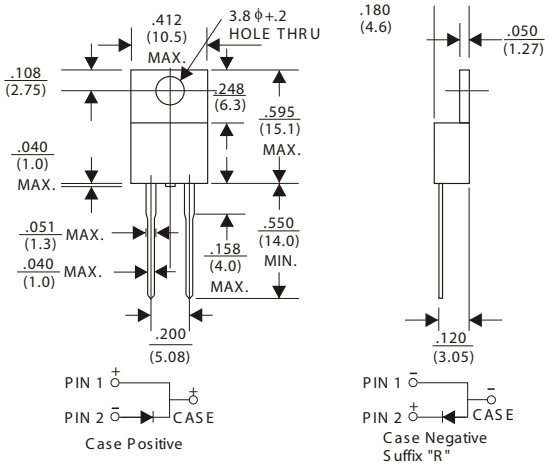
30AMP Schottky Barrier Rectifiers

RoHS Compliant Product

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



TO-220A



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: Lead solderable per MIL-STD-202, method 208 guaranteed
* Polarity: As Marked
* Mounting position: Any
* Weight: 2.24 grams

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	SS3020	SS3030	SS3040	SS3060	SS3080	SS30100	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	60	80	100	V
Working Peak Reverse Voltage	20	30	40	60	80	100	V
Maximum DC Blocking Voltage	20	30	40	60	80	100	V
Maximum Average Forward Rectified Current See Fig. 1	30						A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	250						A
Maximum Instantaneous Forward Voltage at 10.0A	0.45	0.52		0.65	0.83		V
Maximum DC Reverse Current Ta=25°C	15						mA
at Rated DC Blocking Voltage Ta=100°C	150						mA
Typical Junction Capacitance (Note1)	700			460	280		pF
Typical Thermal Resistance RθJC (Note 1)	3.0						°C/W
Operating Temperature Range T_J	-50 ~ +150						°C
Storage Temperature Range T_{STG}	-65 ~ +175						°C

Elektronische Bauelemente

SS3020 THRU SS30100

VOLTAGE 20V ~ 100V

30AMP Schottky Barrier Rectifiers

RATING AND CHARACTERISTIC CURVES (SS3020 THRU SS30100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

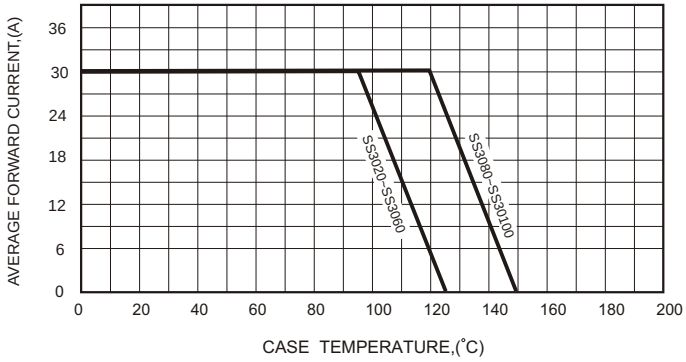


FIG.2-TYPICAL FORWARD CHARACTERISTICS

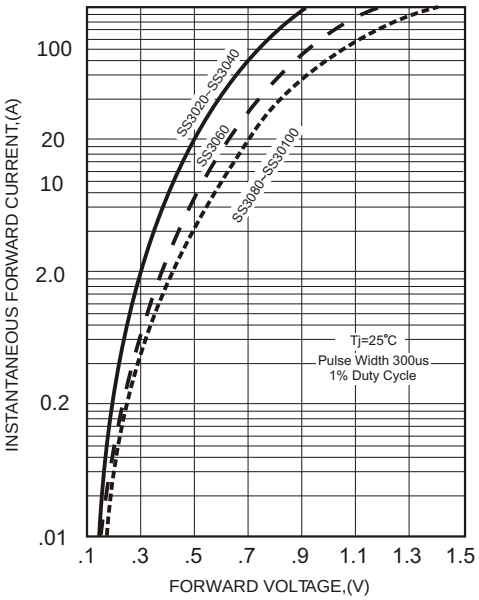


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

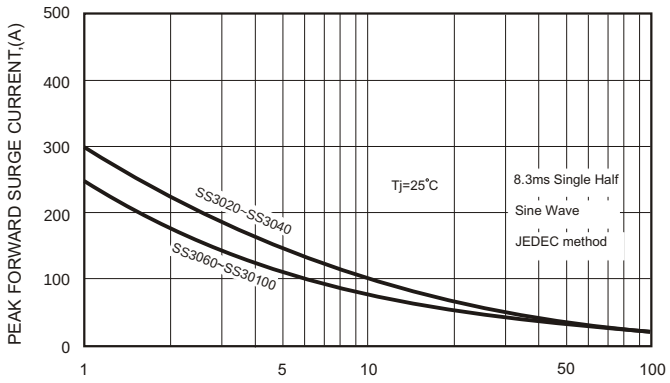


FIG.4-TYPICAL JUNCTION CAPACITANCE

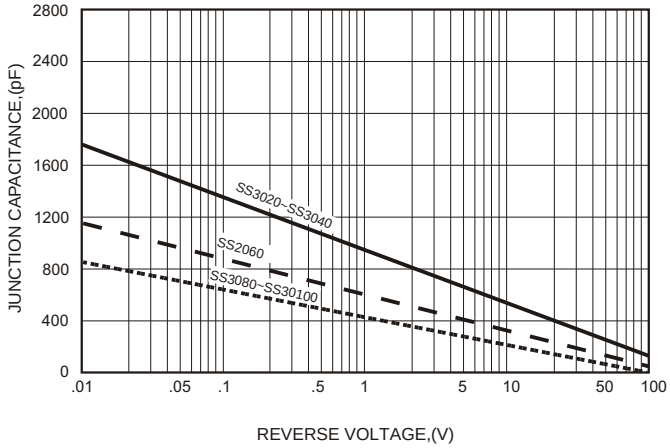


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

