

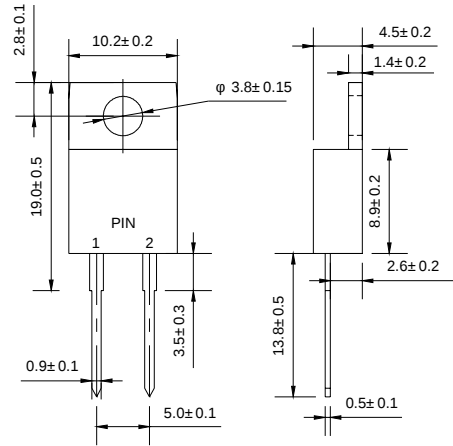

REVERSE VOLTAGE: 20 - 80 V
FORWARD CURRENT: 16 A
TO-220AC

Features

- ◇ Metal-Semiconductor junction with guard ring
- ◇ Epitaxial construction
- ◇ For use in low voltage,high frequency inverters free wheeling,and polarity protection applications
- ◇ Low forward voltage drop,low switching losses
- ◇ High surge capability
- ◇ The plastic material carries U/L recognition 94V-0

Mechanical Data

- ◇ Case:JEDEC TO-220AC,molded plastic
- ◇ Polarity: As marked
- ◇ Weight: 0.064 ounce, 1.81 grams
- ◇ Mounting position: Any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		SR 1620	SR 1630	SR 1640	SR 1660	SR 1680	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	60	80	V
Working peak reverse voltage	V _{RMS}	14	21	28	42	56	V
Maximum DC blocking voltage	V _{DC}	20	30	40	60	80	V
Maximum average forward rectified current @T _A =100°C	I _{F(AV)}	16.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) @T _J =125°C	I _{FSM}	200.0					A
Maximum instantaneous forward voltage per leg @ 16A (Note1)	V _F	0.55			0.7	0.85	V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	1.0 50.0					mA
Operating junction temperature range	T _J	-55 --- +150					°C
Storage temperature range	T _{STG}	-55 --- +150					°C

Note: 1. Pulse test:300us pulse width,1% duty cycle.

Ratings AND Characteristic Curves

FIG.1 –FORWARD CURRENT DERATING CURVE

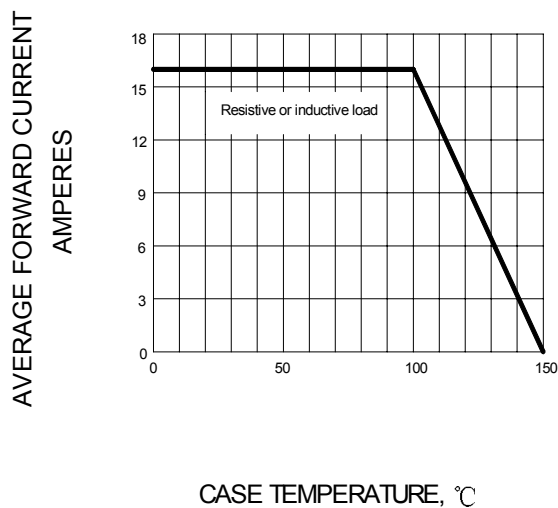


FIG.2 – TYPICAL REVERSE CHARACTERISTICS

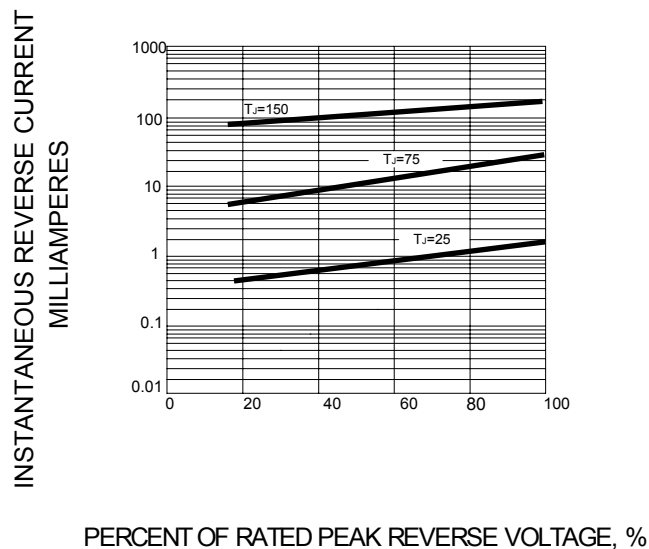


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

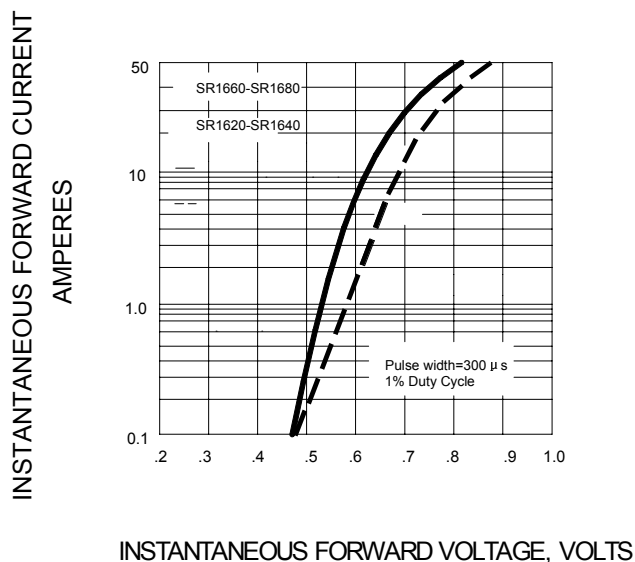


FIG.4 – PEAK FORWARD SURGE CURRENT

