

SR340

3.0 Amp Schottky Barrier Rectifiers

TIAN WEI

Voltage: 4.0 Volts
Current: 3.0 Amps

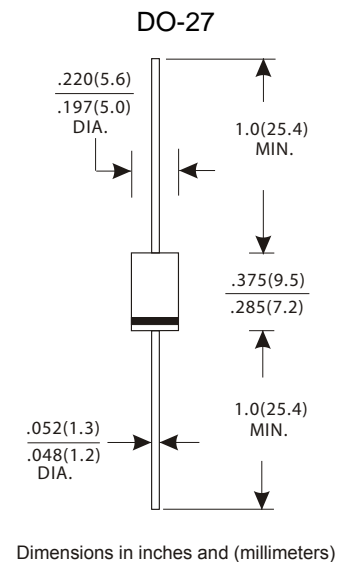


Features

- 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: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
Polarity: Color band denotes cathode end
Weight: 1.10 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	SR340	UNITS
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	28	V
Maximum DC Blocking Voltage	40	V
Maximum Average Forward Rectified Current		
See Fig. 1	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	0.55	V
Maximum DC Reverse Current $T_a=25^{\circ}\text{C}$	3.0	mA
at Rated DC Blocking Voltage $T_a=100^{\circ}\text{C}$	30	mA
Typical Junction Capacitance (Note1)	250	pF
	20	$^{\circ}\text{C}/\text{W}$
Operating Temperature Range T_j	-65 — +125	$^{\circ}\text{C}$
Storage Temperature Range T_{STG}	-65 — +150	$^{\circ}\text{C}$

NOTES:

- Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

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Rating and Characteristic Curves (SR340)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

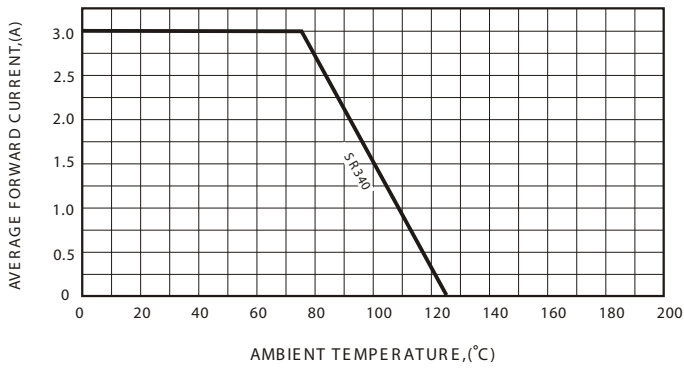


FIG.2-TYPICAL FORWARD CHARACTERISTICS

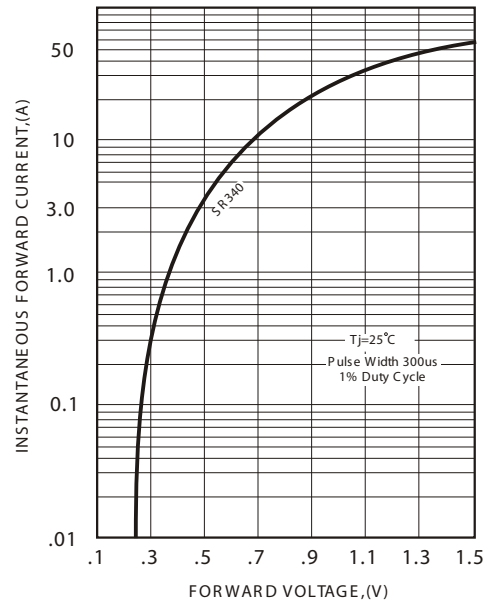


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

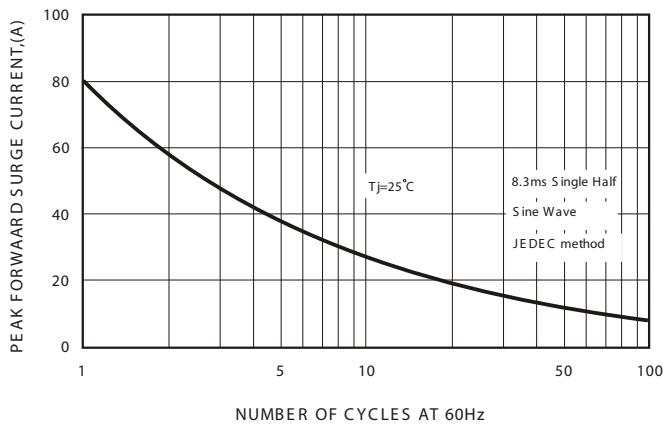


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

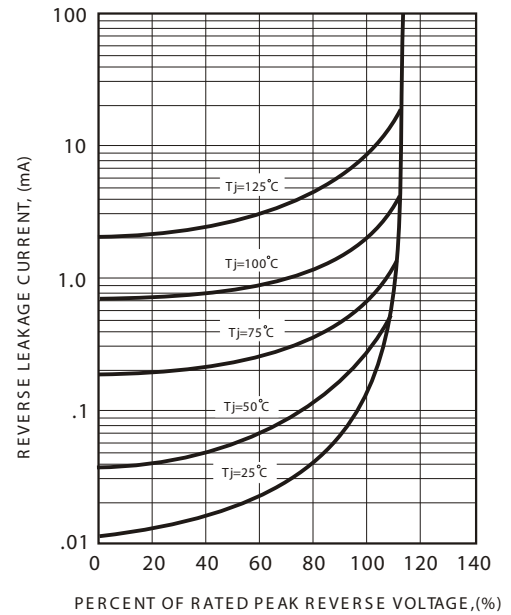


FIG.4-TYPICAL JUNCTION CAPACITANCE

