



SHENZHEN FAITH TECHNOLOGY CO.,LTD

SCHOTTKY BARRIER RECTIFIER

SR320 THRU SR3100

VOLTAGE RANGE

20 to 100 Volts

CURRENT

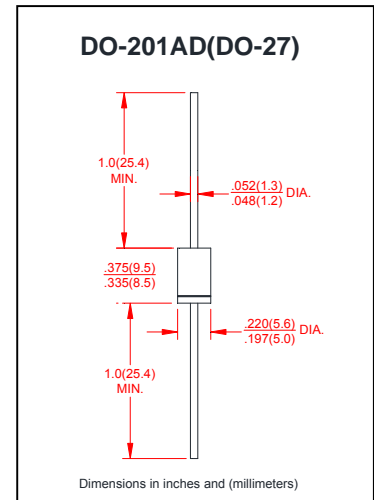
3.0 Ampere

FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High reliability

MECHANICAL DATA

- Case: DO-27, Mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Indicated by cathode band
- Lead: MIL-STD-202E, Method 208 guaranteed
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	3.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80							Amps
Maximum Instantaneous Forward Voltage at 3.0A	V_F	0.55		0.70		0.85		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	1.0							mA
	$T_A = 100^\circ\text{C}$	20							
Typical Junction Capacitance (NOTE 1)	C_J	250							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	20							$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_{J,S}$	-55 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance from Junction to Ambient at 375"(9.5mm) lead length, P.C. board mounted.



SHENZHEN FAITH TECHNOLOGY CO.,LTD

SCHOTTKY BARRIER RECTIFIER

SR320 THRU SR3100

VOLTAGE RANGE 20 to 100 Volts
CURRENT 3.0 Ampere

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

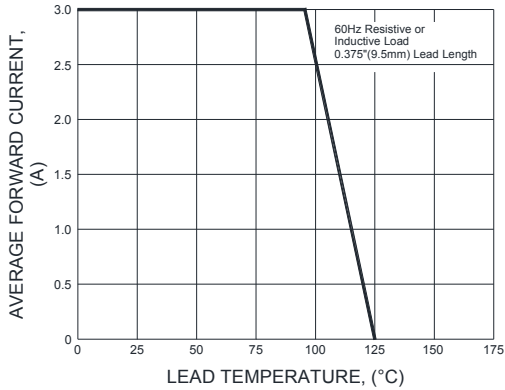


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

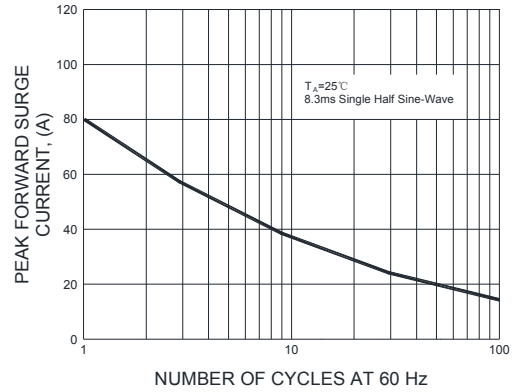


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

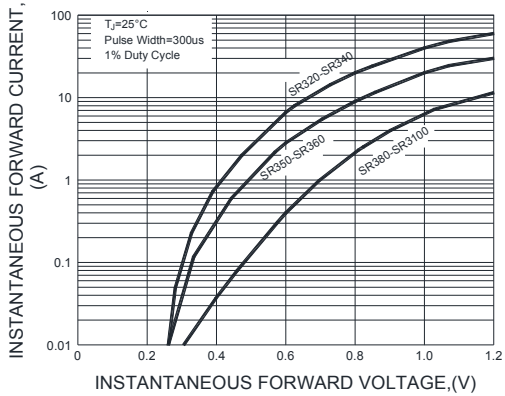


FIG.4-TYPICAL REVERSE CHARACTERISTICS

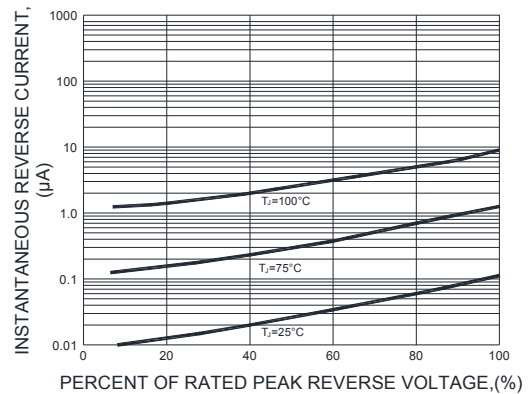


FIG.5-TYPICAL JUNCTION CAPACITANCE

