

3A SCHOTTKY BARRIER RECTIFIERS

Diagram illustrating the dimensions of the 3A Schottky Barrier Rectifier:

- A, 2PL**: Total length of the component.
- B**: Body length.
- C**: Lead length.
- D**: Lead diameter.

Value Inch[mm]		
Dim.	Min.	Max.
A	1.000[25.40]	---
B	0.335[8.51]	0.375[9.52]
C	0.197[5.00]	0.220[5.59]
D	0.048[1.22]	0.052[1.32]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION 94V-0
2. EXTREMELY LOW V_F
3. LOW STORED CHARGE
4. MAJORITY CARRIER CONDUCTION
5. LOW POWER LOSS/HIGH EFFICIENCY
6. CASE: TRANSFER MOLDED, DO-201AD
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208
9. WEIGHT: 1.1 GRAMS
10. RoHS COMPLIANT AND HALOGEN FREE

ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE FIG.1	I_o	3.0	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	80	A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO +150	$^\circ\text{C}$
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO +125	$^\circ\text{C}$
MAXIMUM REVERSE CURRENT AT 25°C	I_R	0.5	mA

PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V_{RRM}/V_R (V)	MAX V_{RMS} (V)	MAXIMUM FORWARD VOLTAGE @ I_o DC V_F (V)	TYPICAL JUNCTION CAPACITANCE C_J (pF)
SR340	40	28	0.55	90
SR360	60	42	0.70	110
SR3100	100	70	0.85	110

NOTE :

1. MEASURED AT 1MHz WITH APPLIED REVERSE VOLTAGE OF 4V.
2. BOTH LEADS ATTACHED TO HEAT SINK 20x20x1T (mm) COPPER PLATE AT LEAD LENGTH 5mm.
3. CURRENT RATING IS BASED ON SINGLE PHASE, 1/2 WAVE, 60HZ, RESISTIVE, OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.
4. SR3100 OPERATING TEMPERATURE CAN GO UP TO $+150^\circ\text{C}$.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

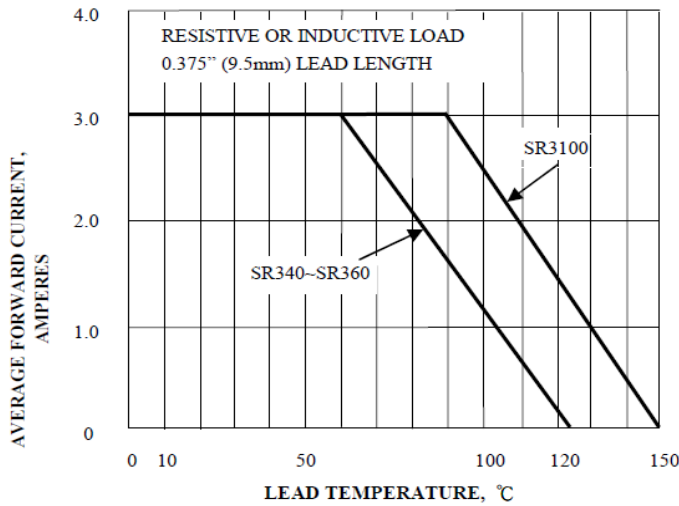


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

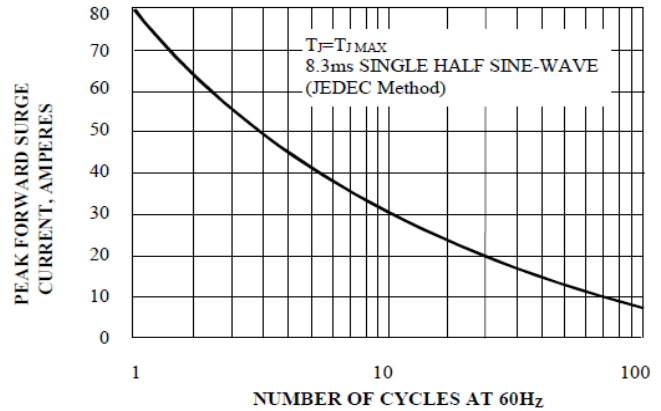


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

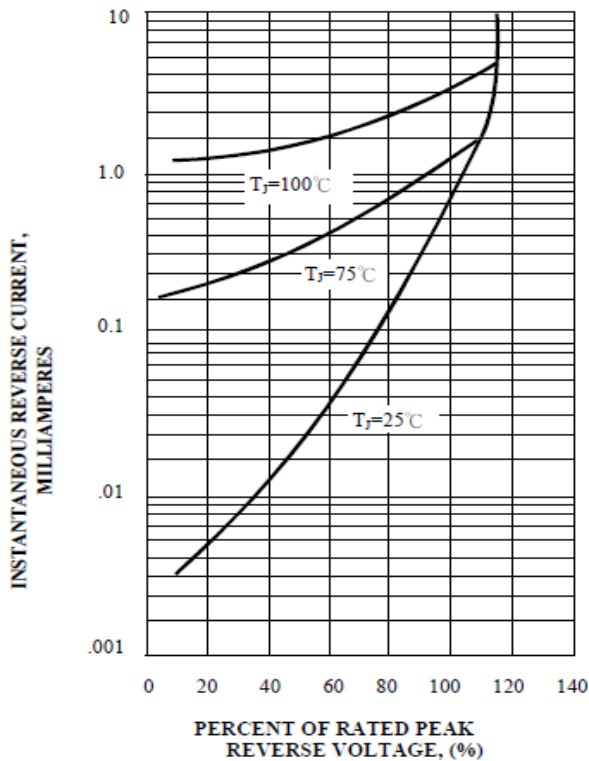


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

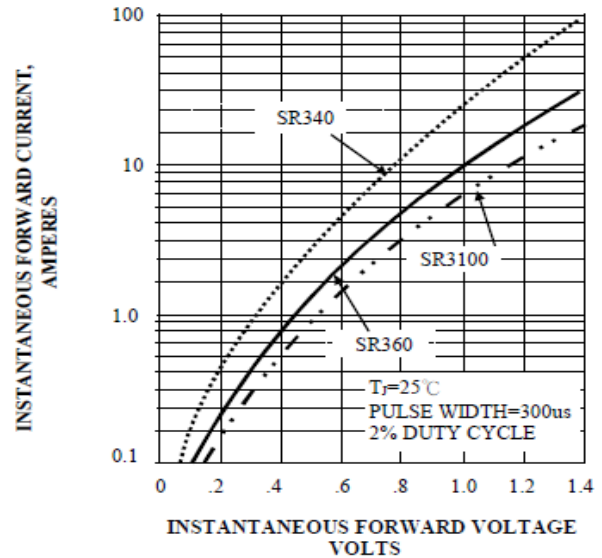


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

