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3A SCHOTTKY BARRIER RECTIFIERS

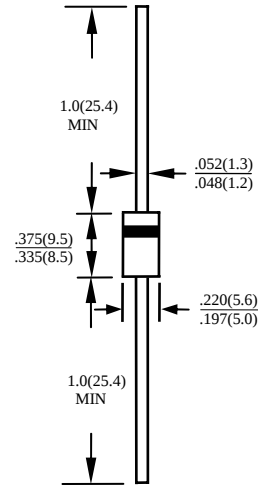
SR302-LFR THRU SR310-LFR

FEATURES

- EXTREMELY LOW V_F
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- ROHS

MECHANICAL DATA

- CASE: TRANSFER MOLDED, DO201AD, DIMENSIONS IN INCHES AND (MILLIMETERS)
- LEADS: SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: CATHODE INDICATED BY COLOR BAND
- WEIGHT: 1.2 GRAMS



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 CURRENT BY 20%

RATINGS	SYMBOL	SR302-LF	SR303-LF	SR304-LF	SR305-LF	SR306-LF	SR307-LF	SR308-LF	SR309-LF	SR310-LF	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V _{RRM}	20	30	40	50	60	70	80	90	100	V
MAXIMUM RMS VOLTAGE	V _{RMS}	14	21	28	35	42	49	56	63	70	V
MAXIMUM DC BLOCKING VOLTAGE	V _{DC}	20	30	40	50	60	70	80	90	100	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" (9.5mm) LEAD LENGTH AT TA=55°C	I _O	3.0									A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I _{FSM}	80									A
TYPICAL JUNCTION CAPACITANCE	C _J	250			200						PF
STORAGE TEMPERATURE RANGE	T _{STG}	- 55 TO + 150									°C
OPERATING TEMPERATURE RANGE	T _{OP}	- 55 TO + 125			- 55 TO + 150						°C

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

CHARACTERISTICS	SYMBOL	SR302-LF R	SR303-LF R	SR304-LF R	SR305-LF R	SR306-LF R	SR307-LF R	SR308-LF R	SR309-LF R	SR310-LF R	UNITS
MAXIMUM FORWARD VOLTAGE AT I _O DC	V _F	0.50			0.74		0.85				V
MAXIMUM REVERSE CURRENT AT 25°C	I _R	2.0									mA

NOTES: 1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS

2. BOTH LEADS ATTACHED TO HEAT SINK 20x20x1t(mm) COPPER PLATE AT LEAD LENGTH 5mm

RATING AND CHARACTERISTIC CURVES SR302-LF THRU SR310-LF

FIG. 1 - FORWARD CURRENT DERATING CURVE

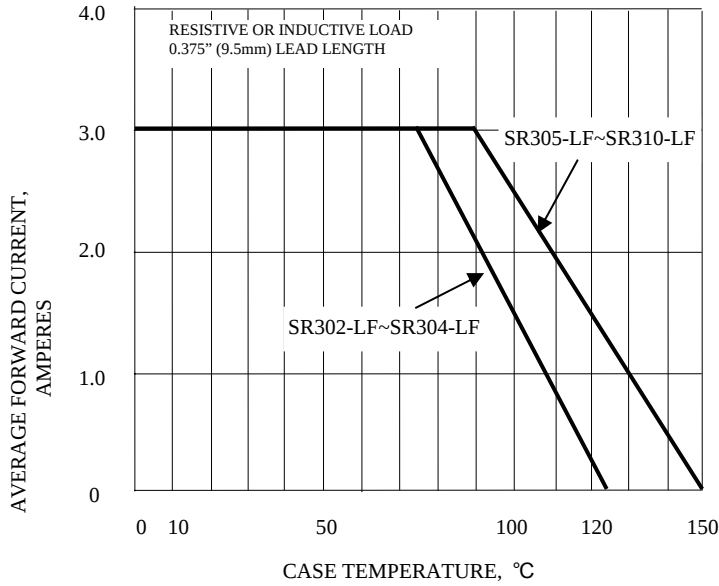


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

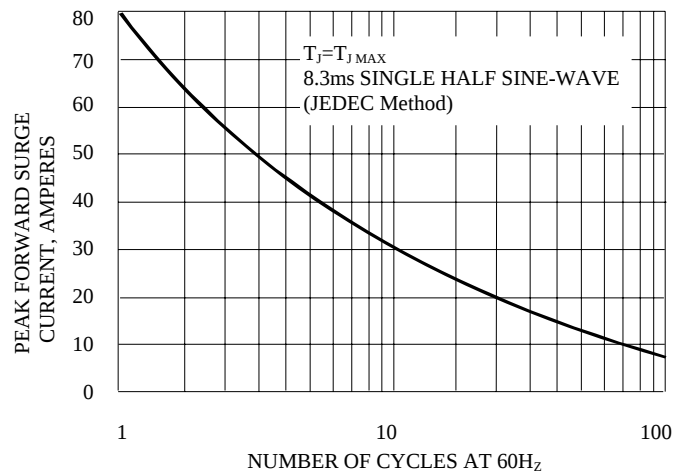


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

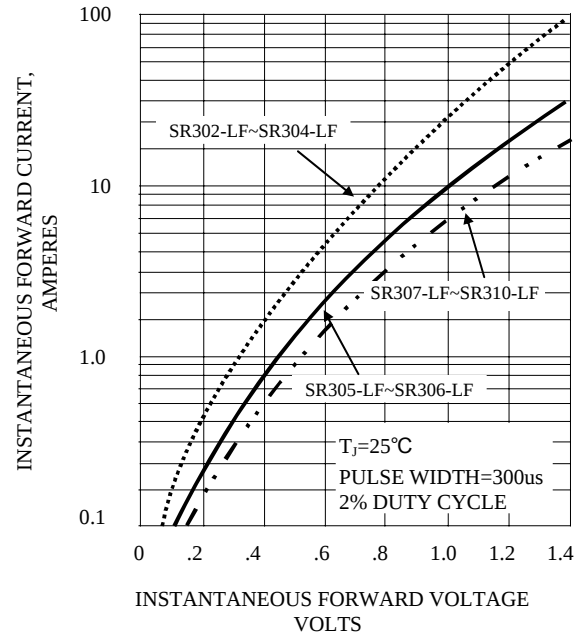


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

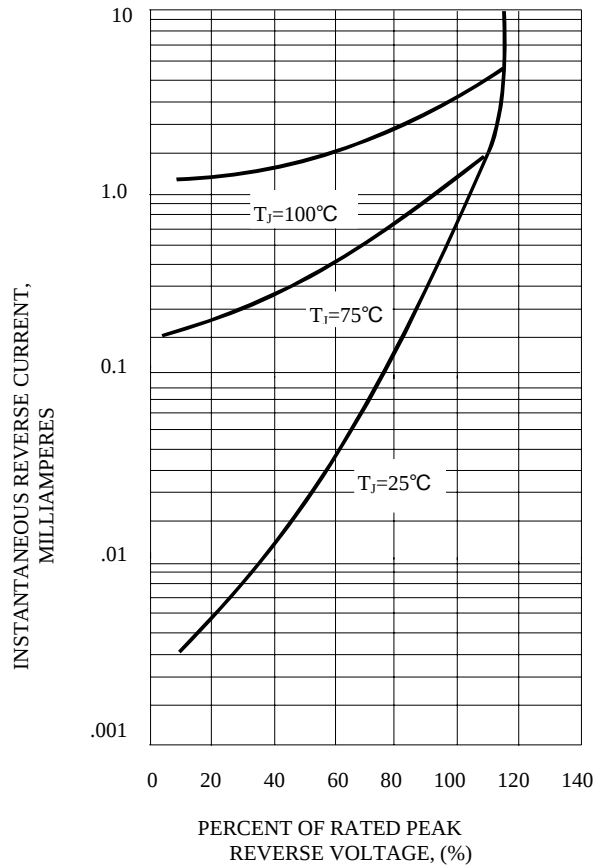


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

