



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998 FAX: (805) 522-9989

E-mail: frontiersales@frontierusa.com

Web: <http://www.frontierusa.com>

2A SCHOTTKY BARRIER RECTIFIERS

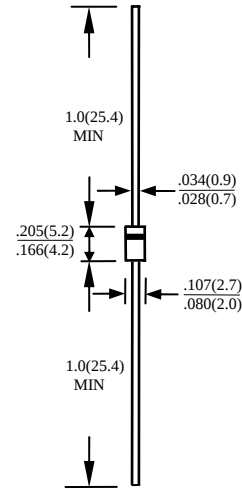
SR202-LFR THRU SR210-LFR

FEATURES

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

MECHANICAL DATA

- CASE: TRANSFER MOLDED, DO-41, DIMENSIONS IN INCHES AND (MILLIMETERS)
- LEADS: SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: CATHODE INDICATED BY COLOR BAND
- WEIGHT: 0.34 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	SR202 -LFR	SR203 -LFR	SR204 -LFR	SR205 -LFR	SR206 -LFR	SR207 -LFR	SR208 -LFR	SR209 -LFR	SR210 -LFR	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 0.375”(9.5mm) LEAD LENGTH (SEE FIG.1)	I _O	2.0									A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I _{FSM}	50									A
TYPICAL JUNCTION CAPACITANCE (NOTE1)	C _J	90			110						PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	R _{θja}	40									°C/W
STORAGE TEMPERATURE RANGE	T _{STG}	- 55 TO + 150									°C
OPERATING TEMPERATURE RANGE	T _{OP}	- 55 TO + 150									°C

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

CHARACTERISTICS	SYMBOL	SR202 -LFR	SR203 -LFR	SR204 -LFR	SR205 -LFR	SR206 -LFR	SR207 -LFR	SR208 -LFR	SR209 -LFR	SR210 -LFR	UNITS
MAXIMUM FORWARD VOLTAGE AT I _O DC	V _F	0.45	0.60	0.65	0.70		0.85				V
MAXIMUM REVERSE CURRENT AT 25°C	I _R	2.0									mA
MAXIMUM REVERSE CURRENT AT 100°C	I _R	20.0									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

RATINGS AND CHARACTERISTIC CURVE SR202-LFR THRU SR210-LFR

FIG. 1 - FORWARD CURRENT DERATING CURVE

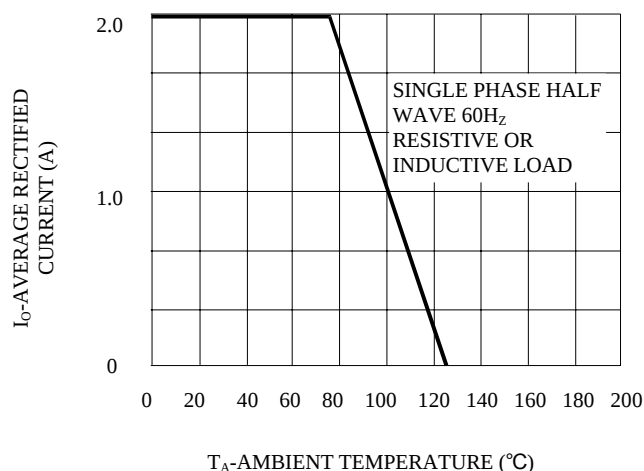


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

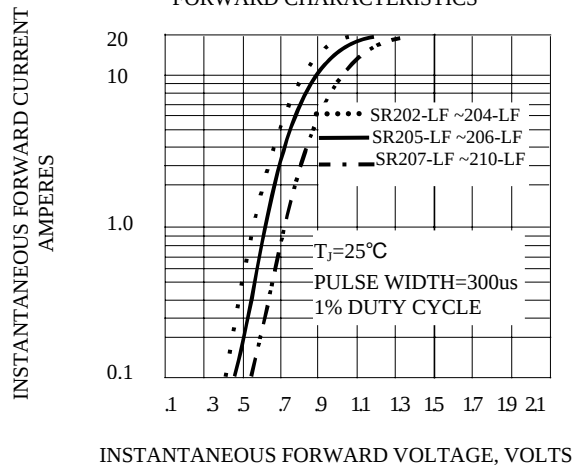


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

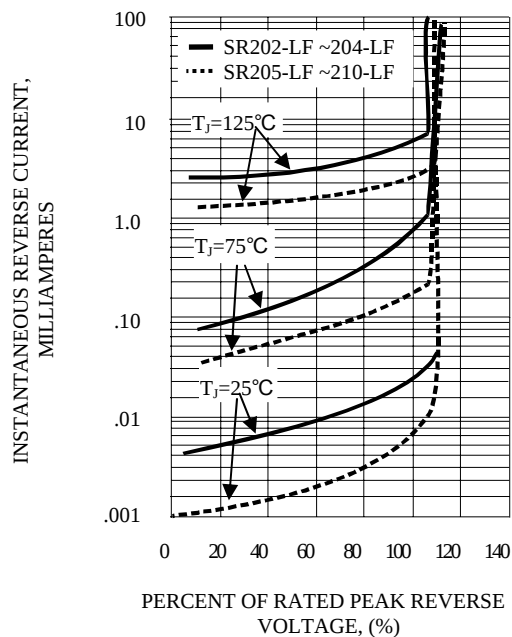


FIG. 4 - MAXIMUM NON-REPETITIVE SURGE CURRENT

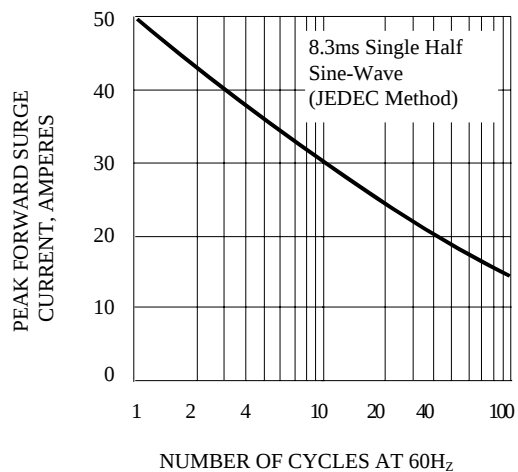


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

