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1A SCHOTTKY BARRIER RECTIFIERS

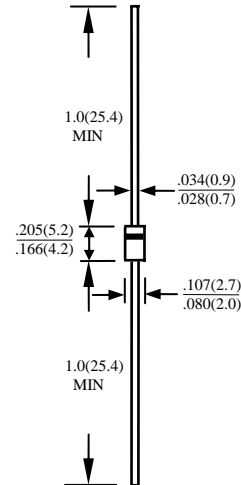
SR102-LFR THRU SR110-LFR

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	SR102-LF R	SR103-LF R	SR104-LF R	SR105-LF R	SR106-LF R	SR107-LF R	SR108-LF R	SR109-LF R	SR110-LF R	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	1.0									A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	40									A
TYPICAL JUNCTION CAPACITANCE (NOTE1)	C_J	110									PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta ja}$	50									°C/W
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	SR102-LF R	SR103-LF R	SR104-LF R	SR105-LF R	SR106-LF R	SR107-LF R	SR108-LF R	SR109-LF R	SR110-LF R	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	1.0									mA
MAXIMUM REVERSE CURRENT AT 100°C	I_R	10.0									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 SR102-LF THRU SR110-LF

FIG. 1 - FORWARD CURRENT DERATING CURVE

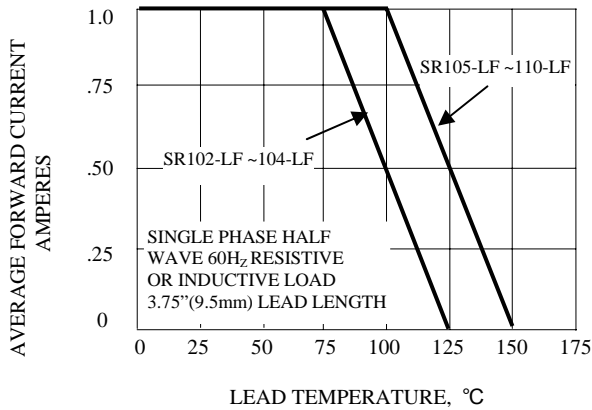


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

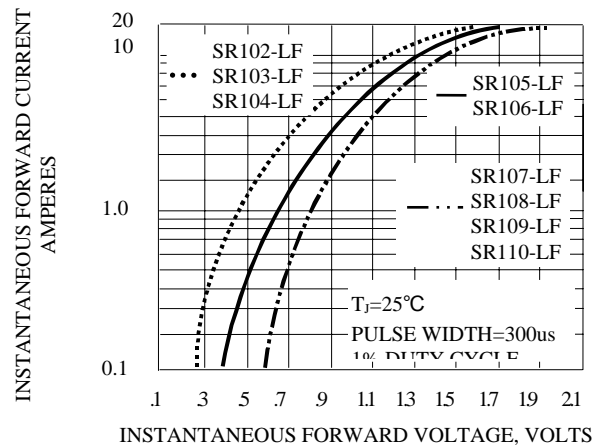


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

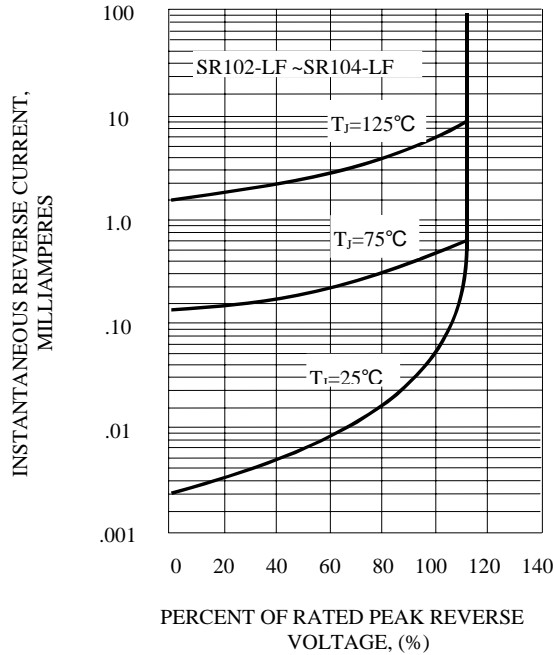
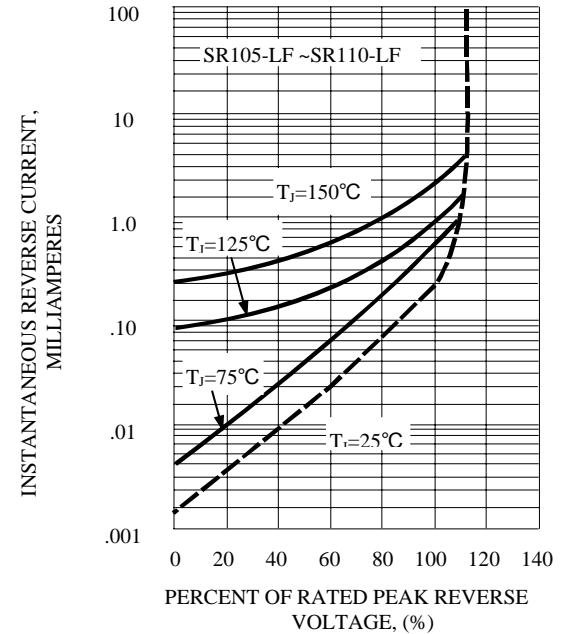


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS



MAXIMUM NON-REPETITIVE

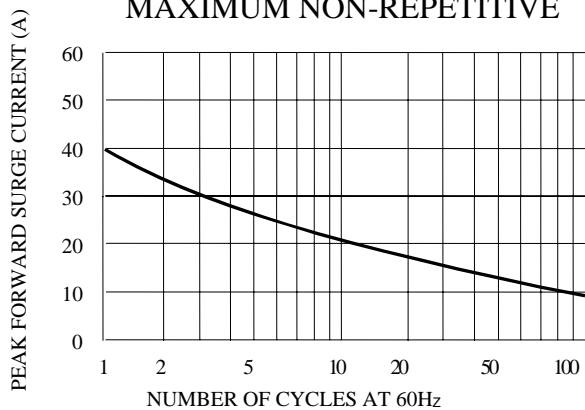


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

