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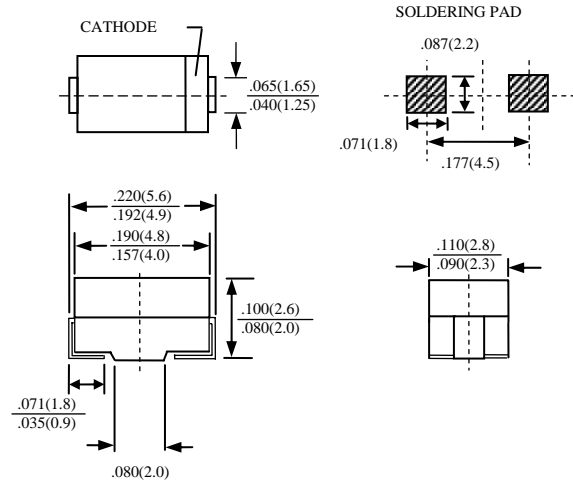
1A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS SS12-LFR THRU SS110-LFR

FEATURES

- EXTREMELY LOW VF
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V-0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- ROHS

MECHANICAL DATA

- CASE: TRANSFER MOLDED, DO-214AC SMA, DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: SOLDERABLE PER MIL-STD-750, METHOD 2026
- POLARITY CATHODE INDICATED BY COLOR BAND
- WEIGHT 0.064 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	SS12-LF R	SS13-LF R	SS14-LF R	SS15-LF R	SS16-LF R	SS17-LF R	SS18-LF R	SS19-LF R	SS110-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 AT $T_J=90^{\circ}C$	I_O	1.0									A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	25									A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	70									PF
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150									°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 125									°C

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

CHARACTERISTICS	SYMBOL	SS12-LF R	SS13-LF R	SS14-LF R	SS15-LF R	SS16-LF R	SS17-LF R	SS18-LF R	SS19-LF R	SS110-LF R	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	0.50			0.70			0.85			V
MAXIMUM REVERSE CURRENT AT 25°C	I_R	0.5									mA

NOTE : 1. MEASURED AT 1.0 MHz AND APPLIED REVERSE VOLTAGE OF 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVE SS12-LFR THRU SS110-LFR

FIG. 1 - FORWARD CURRENT DERATING CURVE

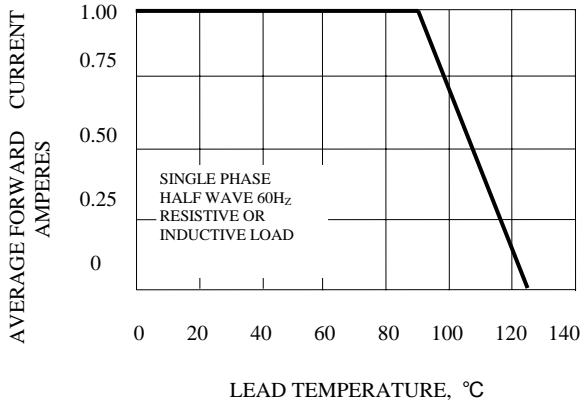


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

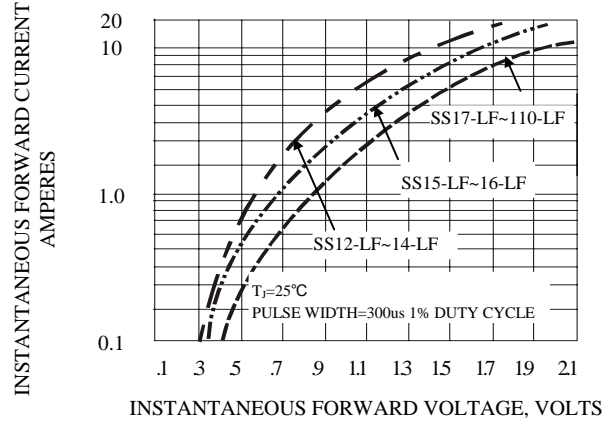


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

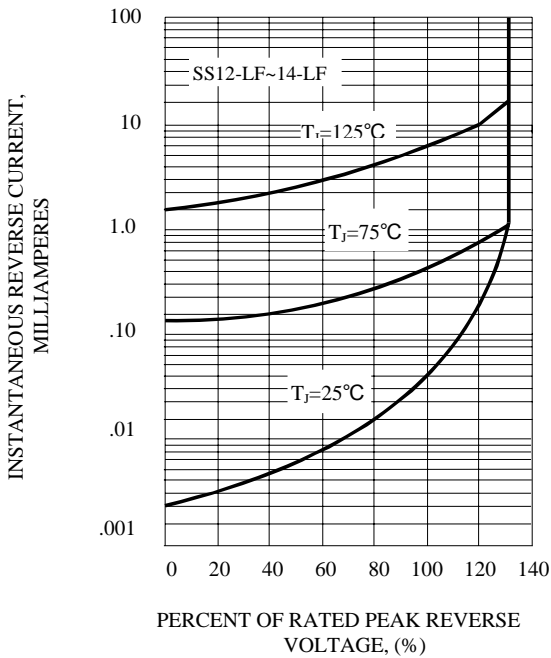


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

