



**FRONTIER
ELECTRONICS CO., LTD.**

**SL12-M
THRU
SL14-M**

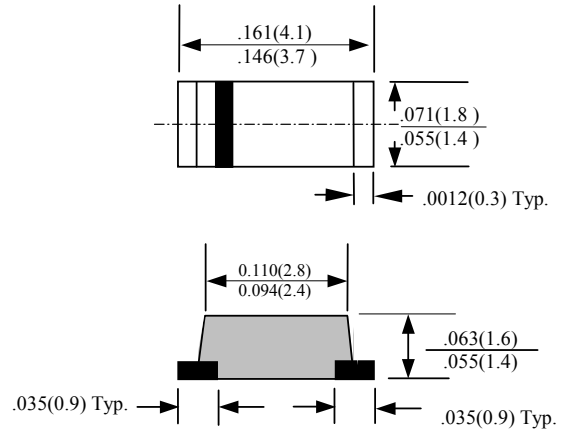
1A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS
LABORATORY CLASSIFICATION 94 V-0
- EXTREMELY LOW VF
- MAJORITY CARRIER CONDUCTION
- HIGH TEMPERATURE SOLDERING : 250°C/10 SECONDS AT
TERMINALS

MECHANICAL DATA

- CASE : MOLDED PLASTIC
- TERMINALS : SOLDER PLATED
- POLARITY : INDICATED BY CATHODE BAND
- WEIGHT : 0.04 GRAMS



CASE : SOD-123
DIMENSIONS IN INCHES AND (MILLIMETERS)

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	SL12-M	SL14-M	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V _{RRM}	20	40	V
MAXIMUM RMS VOLTAGE	V _{RMS}	14	28	V
MAXIMUM DC BLOCKING VOLTAGE	V _{DC}	20	40	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1 (NOTE 1)	I _O	1.0		A
MAXIMUM OVERLOAD SURGE 8.3ms SINGLE HALF SINE-WAVE	I _{FSM}	30		A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C _J	130		PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	R _{θJA}	42		°C/W
STORAGE TEMPERATURE RANGE	T _{STG}	-55 TO + 150		°C
OPERATING TEMPERATURE RANGE	T _{OP}	-55 TO + 125		°C

ELECTRICAL CHARACTERISTICS (AT T_A =25°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	SL12-M	SL14-M	UNITS
MAXIMUM FORWARD VOLTAGE AT 1.0A AND 25°C (NOTE 1)	V _F	0.38	0.40	V
MAXIMUM REVERSE CURRENT AT 25°C (NOTE 1)	I _R	0.5		mA
MAXIMUM REVERSE CURRENT AT 100°C (NOTE 1)	I _R	10.0		mA
MARKING		L2	L4	

- NOTE : 1. PULSE TEST : 300µS PULSE WIDTH , 1% DUTY CYCLE
2. P.C.B. MOUNTED 0.55"×0.55 "(14×14 mm) 0.013mm THICK COPPER PAD AREAS

RATINGS AND CHARACTERISTIC CURVE SL12-M THRU SL14-M

