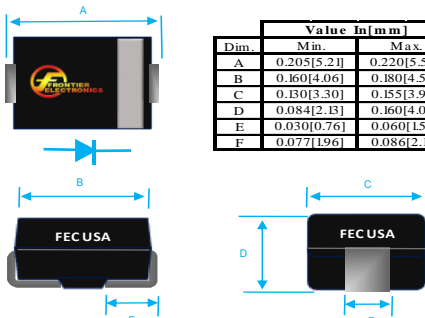


1A LOW FORWARD VOLTAGE SCHOTTKY BARRIER RECTIFIERS



Dim.	Value In[mm]	
	Min.	Max.
A	0.205[8.21]	0.220[8.59]
B	0.160[4.06]	0.180[4.57]
C	0.130[3.30]	0.155[3.94]
D	0.084[2.13]	0.160[4.06]
E	0.030[0.76]	0.060[1.52]
F	0.077[1.96]	0.086[2.18]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW VF
3. MAJORITY CARRIER CONDUCTION
4. BUILT-IN STRAIN RELIEF
5. LOW PROFILE
6. CASE: MOLDED PLASTIC, DO-214AA (SMB)
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY: INDICATED BY CATHODE BAND
9. WEIGHT: 0.093 GRAMS
10. ROHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO + 150°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENTSEE FIG.1 (NOTE 1)	IO	1	A
MAXIMUM OVERLOAD SURGE 8.3ms SINGLE HALF SINE-WAVE	IFSM	25	A
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqjl	35	°C/W
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqja	95	°C/W
MAXIMUM FORWARD VOLTAGE AT 1.0A AND 25°C(NOTE 1)	VF	0.395	V
MAXIMUM REVERSE CURRENT AT 25°C(NOTE 1)	IR	500	uA
MAXIMUM REVERSE CURRENT AT 100°C(NOTE 1)	IR	20000	uA

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

PART NUMBER	MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V)	MAXIMUM RMS VOLTAGE VRMS (V)	MAXIMUM DC BLOCKING VOLTAGE VDC (V)
LS12B	20	14	20
LS13B	30	21	30
LS14B	40	28	40

RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

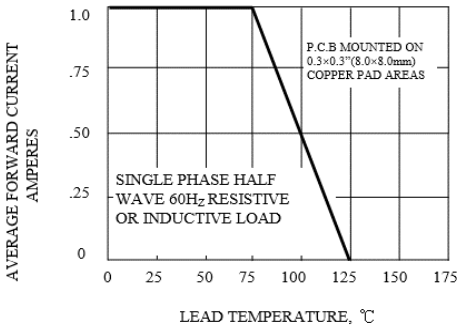


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

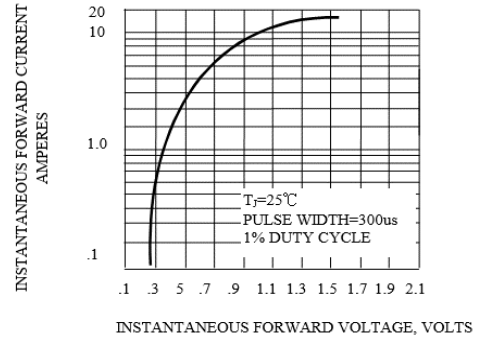


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

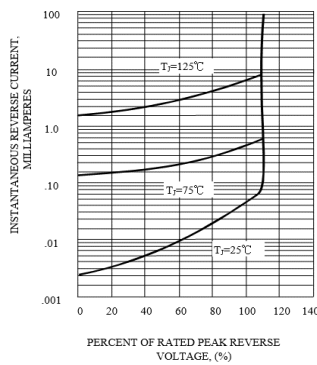
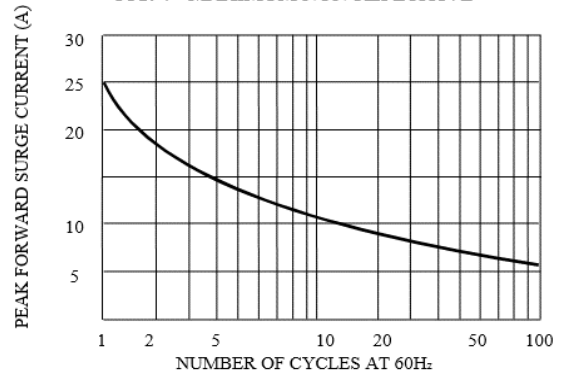


FIG. 4 - MAXIMUM NON-REPETITIVE



G. 5 - TYPICAL JUNCTION CAPACITANCE

