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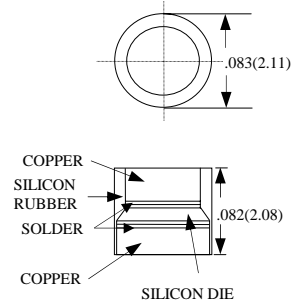
Web: <http://www.frontierusa.com>

1A SILICON RECTIFIER CELL

SC10-005 THRU SC10-10

FEATURES

- IDEAL FOR HYBRID CIRCUITS
 - SOLDER MOUNTING SURFACES
 - TYPICAL I_R LESS THAN $1\mu A$
 - DIFFUSED JUNCTION
 - HIGH SURGE CAPABILITY
 - MOUNTING POSITION: ANY
 - A4 PACKAGE, DIMENSION IN INCHES AND (MILLIMETERS)
- CELL DESIGNATION: A SUFFIX LETTER IS ADDED TO THE PRIMARY CELL DESIGNATION TO INDICATES THE CELL VOLTAGE



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	SC10-005	SC10-01	SC10-02	SC10-04	SC10-06	SC10-08	SC10-10	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	50	100	200	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	35	70	140	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	50	100	200	400	600	800	1000	V
MAXIMUM AVERAGE FORWARD RECTIFIER CURRENT @ TC 100°C	I_O	1.0							A
PEAK FORWARD SURGE CURRENT 8.3m SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD JEDEC METHOD	I_{FSM}	30							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150							°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 150							°C

ELECTRICAL CHARACTERISTICS (@ $T_A = 25^\circ C$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	SC10-005	SC10-01	SC10-02	SC10-04	SC10-06	SC10-08	SC10-10	UNITS
MAXIMUM FORWARD VOLTAGE AT SPECIFIED CURRENT SC10 @ IF 1.0A	V_F	1.1							V
MAXIMUM REVERSE LEAKAGE CURRENT AT RATED DC BLOCKING VOLTAGE	I_R	10							μA