



# Frontier Electronics Corp.

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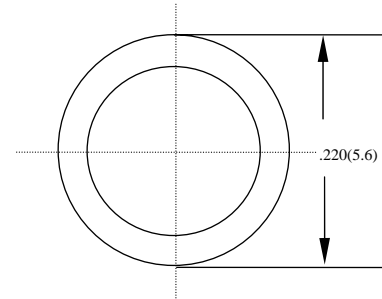
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## 6A SILICON RECTIFIER CELL

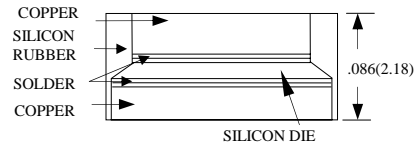
### SC60-005 THRU SC60-10

#### FEATURES

- IDEAL FOR HYBRID CIRCUITS
- SOLDER MOUNTING SURFACES
- TYPICAL  $I_R$  LESS THAN  $1\mu A$
- DIFFUSED JUNCTION
- HIGH SURGE CAPABILITY
- MOUNTING POSITION: ANY
- SO2A 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	SC60-005	SC60-01	SC60-02	SC60-04	SC60-06	SC60-08	SC60-10	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	$I_O$	6.0							A
PEAK FORWARD SURGE CURRENT 8.3m SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD JEDEC METHOD	$I_{FSM}$	400							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	SC60-005	SC60-01	SC60-02	SC60-04	SC60-06	SC60-08	SC60-10	UNITS
MAXIMUM FORWARD VOLTAGE AT SPECIFIED CURRENT SC60 @ IF 6.0A	$V_F$	0.9							V
MAXIMUM REVERSE LEAKAGE CURRENT AT RATED DC BLOCKING VOLTAGE	$I_R$	10							$\mu A$