

DO-214AA/SMB

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- Technical drawing of a 100mm x 100mm x 10mm aluminum extrusion profile. The drawing shows the front and side views with dimensions in inches and millimeters.
- Front View Dimensions:**
- Slot Width: $\frac{0.087(2.20)}{0.071(1.80)}$
 - Slot Depth: $\frac{0.155(3.94)}{0.130(3.30)}$
 - Slot Position: $\frac{0.180(4.57)}{0.160(4.06)}$
- Side View Dimensions:**
- Total Width: $\frac{0.180(4.57)}{0.160(4.06)}$
 - Height: $\frac{0.155(3.94)}{0.130(3.30)}$
- Bottom View Dimensions:**
- Total Length: $\frac{0.220(5.59)}{0.200(5.08)}$
 - Width: $\frac{0.060(1.52)}{0.030(0.76)}$
 - Slot Position: $\frac{0.012(0.305)}{0.006(0.152)}$
 - Slot Width: $\frac{0.096(2.44)}{0.084(2.13)}$
 - Slot Depth: $\frac{0.060(1.52)}{0.030(0.76)}$
 - Slot Position: $\frac{0.008(0.203) \text{ MAX.}}{0.008(0.203) \text{ MAX.}}$
- Section View:**
- Section Line: A-B
 - Section View: A-B

Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Parameter	SYMBOLS	SS22	SS24	SS26	SS28	SS210	SS215	SS220	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	150	200	V
Maximum average forward rectified current at T _L =100°C	I _(AV)	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50.0							A
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70	0.85		0.95		V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	0.5 50			0.05 10				mA
Typical thermal resistance	R _{qJA}	85.0							°C/W
Operating junction temperature range	T _J	-55 to +125			-55 to +150				°C
Storage temperature range	T _{STG}	-55 to +150							°C



SS22~SS220

2.0Amp Surface Mounted Schottky Barrier Rectifiers

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

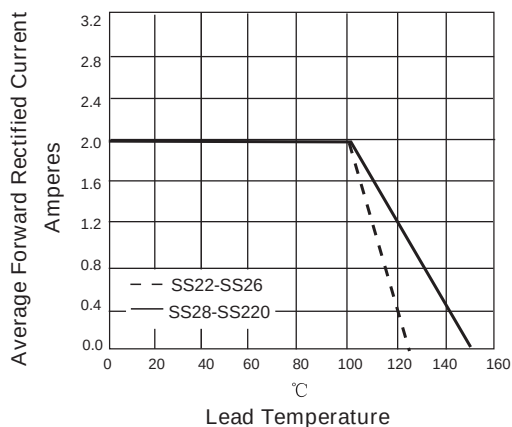


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

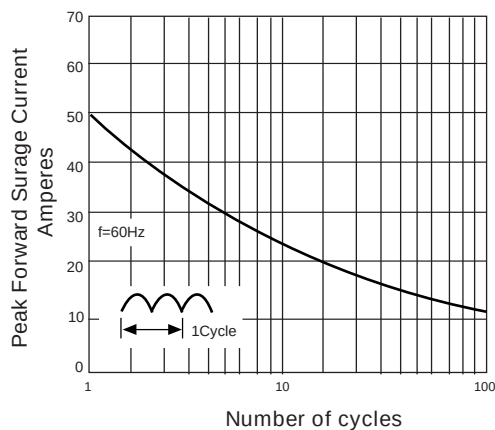


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

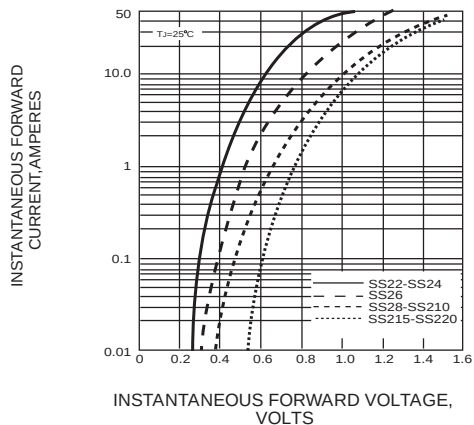
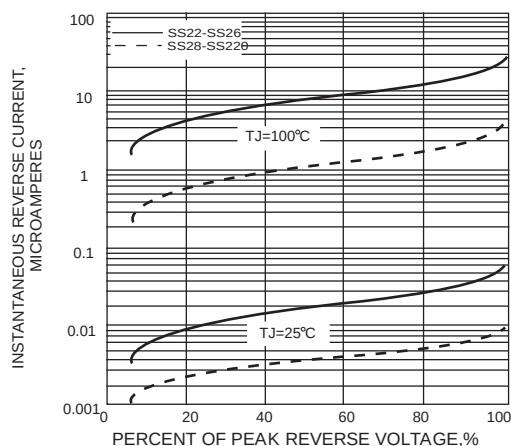
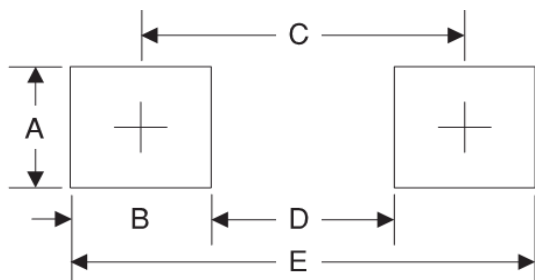


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	2.30	0.091
B	2.00	0.078
C	4.10	0.161
D	2.10	0.083
E	6.10	0.240