S1AB THRU S1MB

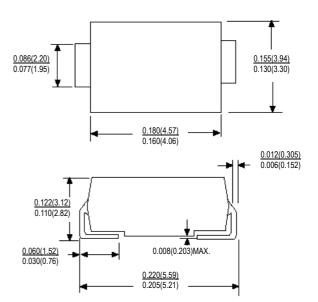
SURFACE MOUNT GENERAL RECTIFIER Reverse Voltage – 50 to 1000 V Forward Current – 1 A

Features

- The Plastic package carries Underwriters Laboratories Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability

Mechanical Data

- Case: JEDEC DO-214AA, molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denates cathode end
- Mounting Position: Any



DO-214AA

Dimensions in inches and millimeters

Absolute Maximum Ratings and 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%.

Parameter	Symbols	S1AB	S1BB	S1DB	S1GB	S1JB	S1KB	S1MB	Units
Maximum Repetitive 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 Rectified Current at T_L = 110 °C	I _(AV)	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine -wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.1							V
Maximum DC Reverse Current $T_A = 25 ^{\circ}C$ at Rated DC Blocking Voltage $T_A = 100 ^{\circ}C$	I _R	5 50							μA
Typical Junction Capacitance ¹⁾	CJ	15							pF
Typical Thermal Resistance ²⁾	$R_{ ext{ heta}JA}$	75							°C/W
Operating Junction and Storage Temperature Range	T _J , T _S	-65 to +175							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

 $^{2)}$ P.C.B. mounted with 0.2 X 0.2" (5.0 X 5.0 mm) copper pad areas.

SEMTECH ELECTRONICS LTD.

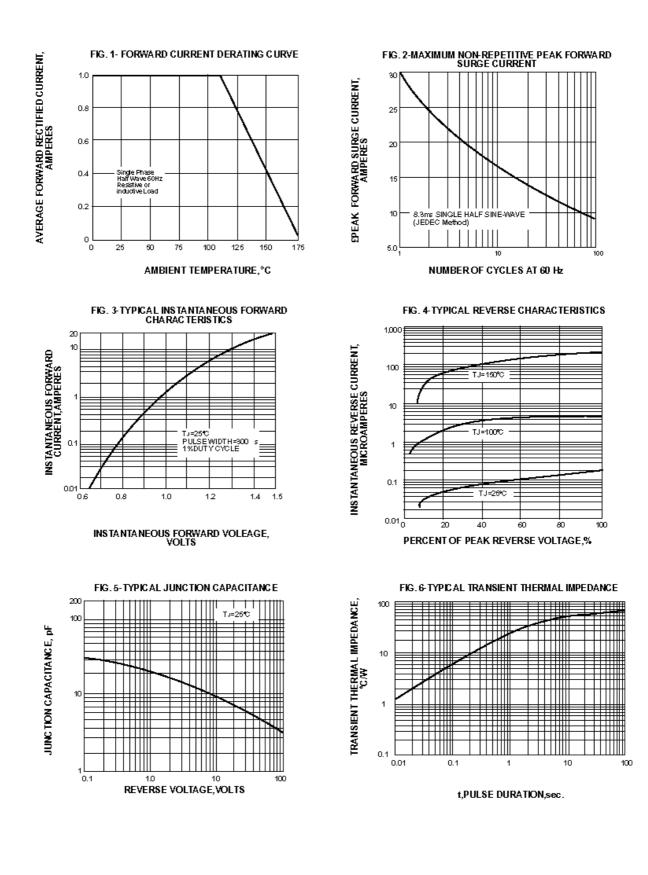
(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



NOODY NEERING CONFICTION CONFICTUATION CONFICTION CONFICTUATION CONFICTION CONFICTION CONFICTION CONFICTION CONFICTION CONFICTION CONFICTION CONFICTION CONFICTUATION CONFICTUATICON CONFICTUATION CONFICTUATION CONFICTUATION CONFICTUATION CO

Dated : 22/02/2006 C

S1AB THRU S1MB





SEMTECH ELECTRONICS LTD. (Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 22/02/2006 C