SS12U THRU SS125U

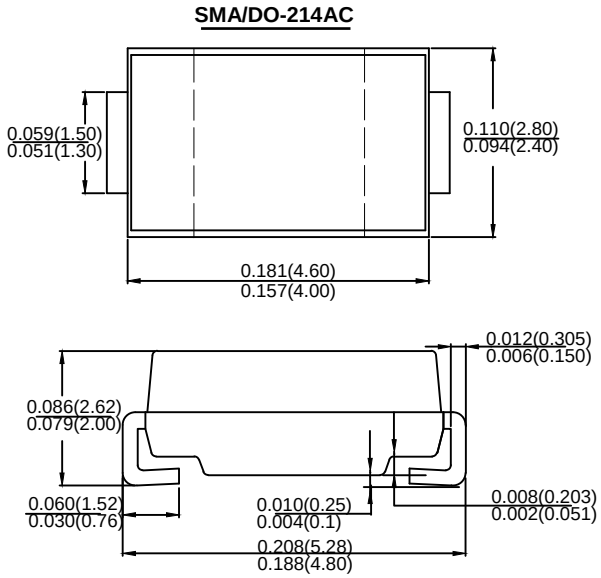
1.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 35A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SS 12U	SS 13U	SS 14U	SS 145U	SS 15U	SS 16U	SS 18U	SS 110U	SS 115U	SS 120U	SS 125U	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V_{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T_A =90℃	I_O	1.0											A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35											A
Forward Voltage @IF=1.0A (Note 1)	V_{FM}	0.50				0.67		0.82		0.9		0.92	V
Peak Reverse Current @T_A =25℃	I_R	0.1						0.05					mA
At Rated DC Blocking Voltage @T_A =100℃		10						5					
Typical Junction Capacitance	C_J	28											pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JL}$	88											℃/W
Operating Temperature Range	T_J	-55 to+150											℃
Storage Temperature Range	T_{STG}	-55 to +150											℃

Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

2.Mounted on P.C.Board with 5.0 mm²（0.13mm thick）copper pad areas.

SS12U THRU SS125U

Fig. 1 Forward Current Derating Curve

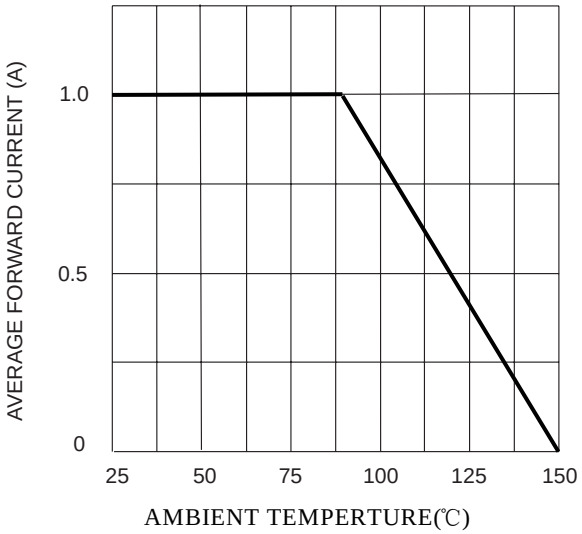


Fig. 2 Typ. Forward Characteristics

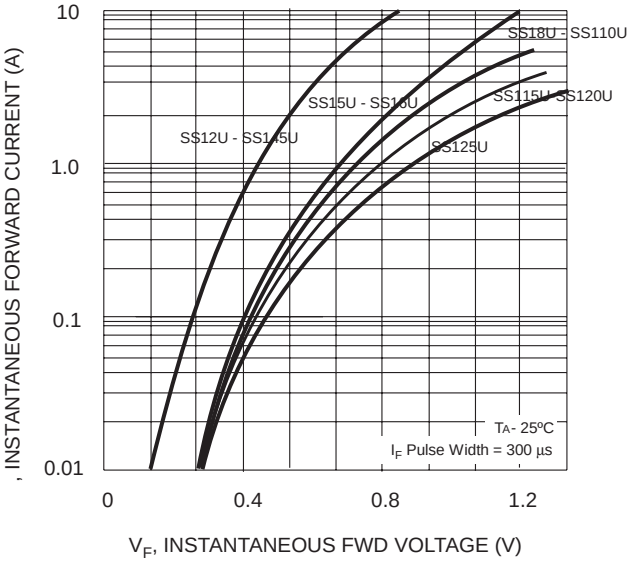


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

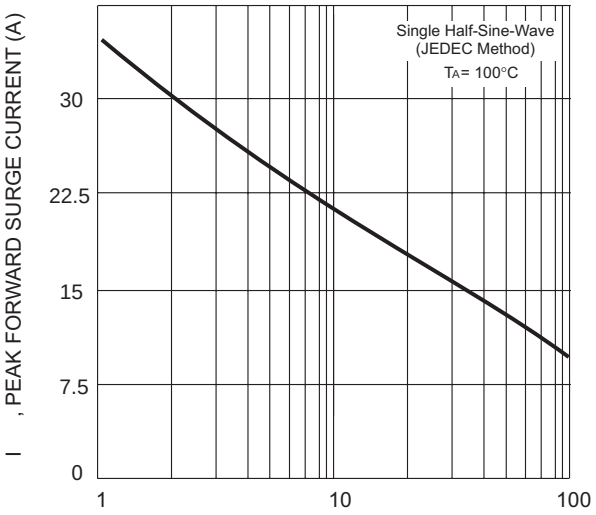


Fig. 4 T ypical Reverse Characteristics (per element)

